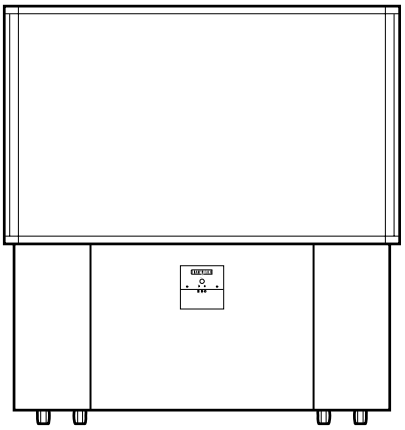
SHARP SERVICE MANUAL

S61W155R-WP4H



REAR PROJECTION TV

MODELS 61R-WP4H 55R-WP4H

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

OUTLINE

This model is based on the current model 55/61R-WP5H. The HD (RGB) INPUT is not available and the style partially redesigned.
This Service Manual covers only the modifications from the basic model. For details, refer to the 55/61R-WP5H Service Manual.

CONTENTS

Page

- CHANGING PART LIST 2
- SPECIFICATIONS 3
- SCHEMATIC DIAGRAMS
  - MAIN UNIT-1/5 4
  - MAIN UNIT-3/5 6
- PARTS LIST 8

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

CHANGING PART LIST

Ref.No.	Description	55/61R-WP5H	55/61R-WP4H	Note
Printed Wiring Board Ass'y				
	Service chassis	DSETUA232FMV0S	DSETUA232FMV1S	
PWB-A	Main Unit	DUNTKA232WEV0	DUNTKA232WEV1	
MAIN UNIT				
R3626	Resistor 10k 1/16W	VRS-CY1JF103J	—	
R3627	Resistor 10k 1/16W	—	VRS-CY1JF103J	
The 55/61R-WP4H does not have the following parts when compared to 55/61R-WP5H.				
IC1401, IC1402, IC1901 to IC1903				
Q1901 to Q1905				
D1901 to D1905, D1953, D1954				
L1901				
C1406 to C1418, C1901 to C1922, C1925, C1930, C1931				
R1448 to R1452, R1454 to R1461, R1464 to R1468, R1901 to R1907, R1909, R1910, R1912 to R1917, R1919, R1921 to R1925, R1960 to R1973				
SC1953				
CABINET PARTS				
2	Control Cover	GCOVA1051MESA	GCOVA1051MESB	
3	Front Door	GDORF1117MESA	GDORF1117MESB	
4	SP Grill (61R)	HGRL-5000MESA	HGRL-5004MESA	
4	SP Grill (55R)	HGRL-5001MESA	HGRL-5003MESA	
7	Control Panel	HPNLC1107MEKA	HPNLC1107MEKB	
10	Frame-Top (61R)	CWAKP0109ME01	CWAKP0109ME02	
10	Frame-Top (55R)	CWAKP0108ME01	CWAKP0108ME02	
11	Frame-Bottom (61R)	CWAKP0106ME01	CWAKP0106ME02	
11	Frame-Bottom (55R)	CWAKP0107ME01	CWAKP0107ME02	
12	Frame-Side (61R)	CWAKP0103ME01	CWAKP0103ME02	
12	Frame-Side (55R)	CWAKP0105ME01	CWAKP0105ME02	
24	Badge	HBDGD3017MESA	HBDGB3121CESB	
29	Indication Plate-Rear	HiNDP0109MEKZ	HiNDP0111MEKZ	
35	Corner (RT)	CHLDZ0105ME01	CHLDZ0105ME02	
36	Corner (LT)	CHLDZ0106ME01	CHLDZ0106ME02	
SUPPLIED ACCESORRIES				
	Registration Card	TGAN-1061MEZZ	TGAN-1006MEZZ	
	Operation Manual	TiNS-7197MEZZ	TiNS-7360MEZZ	
PACKING PARTS				
	Packing Case, Top (61R)	SPAKC0680MEZZ	SPAKC0681MEZZ	
	Packing Case, Top (55R)	SPAKC0682MEZZ	SPAKC0684MEZZ	

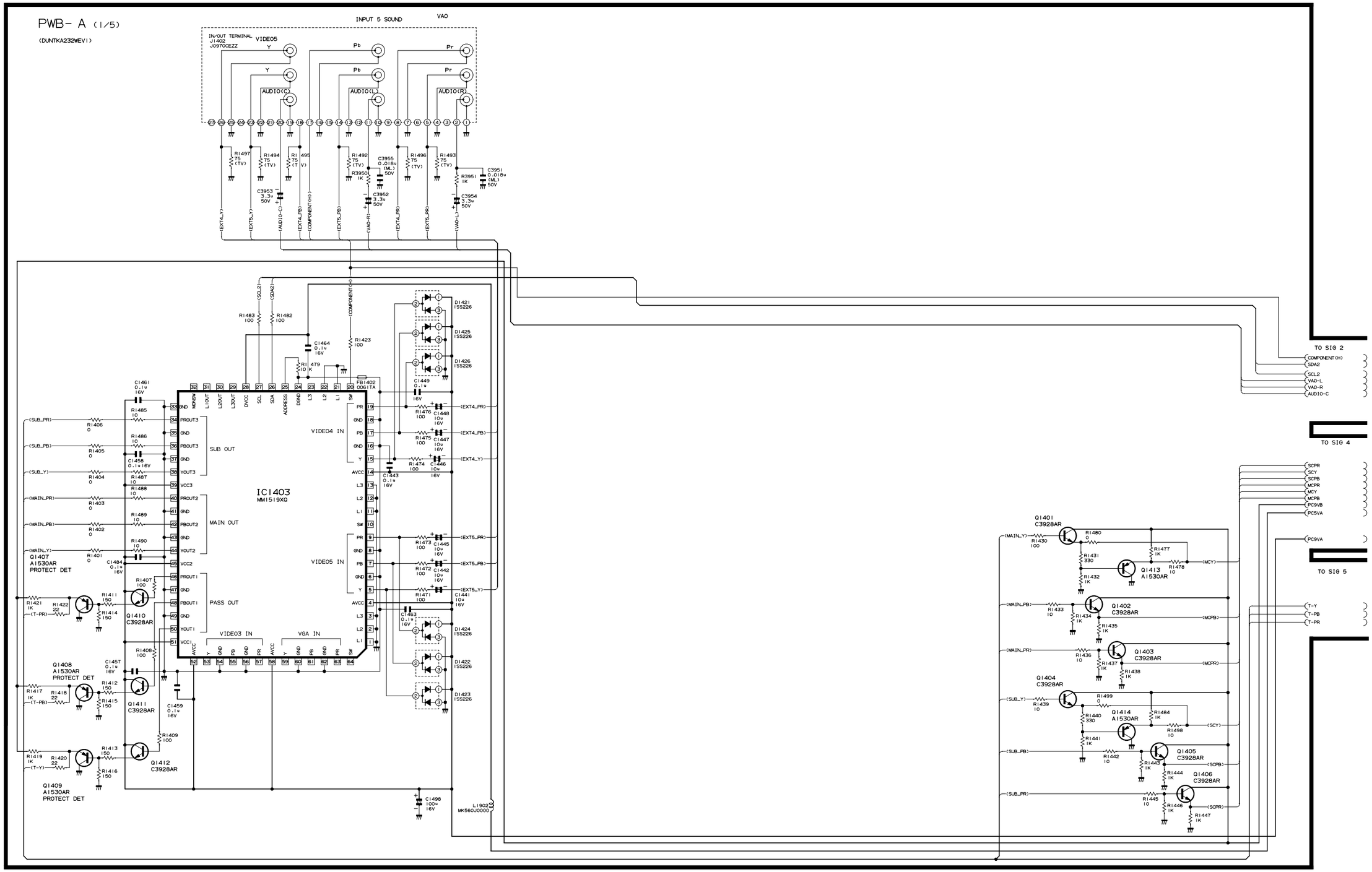
Specifications

Model	61R-WP4H/55R-WP4H
Signal System	NTSC
Channel	AIR 2ch — 69ch CATV 1ch — 125ch
Antenna input	ANT A/B 75 Ω unbalance
Video input	(INPUT 1, 2, 3, 4) Composite Input jack: Pin-jack × 1 Input level: 1 Vp-p/75 Ω/negative sync
S video input	(INPUT 1, 2, 3) Y/C Y: 1 Vp-p/75 Ω/negative sync C: 0.286 Vp-p/75 Ω
Component input	(INPUT 4, 5) Component (Y, P_B, P_R) Input jack: Pin-jack × 3 (INPUT 4) Input signal: 480I, 480P, 720P, 1080I Y: 1 Vp-p/75 Ω/negative sync P_B, P_R: 0.525 Vp-p/75 Ω (75% saturation level)
AUDIO input	(INPUT 1, 2, 3, 4, 5) Input jack: Pin-jack × 2 0.5 Vrms/22 kΩ or over
VAO **(Variable audio output)**	Output Jack: Pin-jack × 2 0.89 Vrms (max)/2.2 kΩ
Monitor Out	Video: Composite Video 1 Vp-p/75 Ω/negative Audio: 500 mVrms (100% modulation/Less than 1 kΩ)
Audio output	30 W (15 W + 15 W)
Power supply	120 V AC, 60 Hz
Power consumption	290 W
Dimensions	61R-WP4H: $56^{21}/_{32}$" (W) × $57^{7}/_{8}$" (H) × $28^{45}/_{64}$" (D) [1439 mm (W) × 1470 mm (H) × 729 mm (D)] 55R-WP4H: $51^{17}/_{64}$" (W) × $50^{5}/_{64}$" (H) × $28^{5}/_{32}$" (D) [1302 mm (W) × 1272 mm (H) × 715 mm (D)]
Weight	61R-WP4H: 298lbs (135.2 kg) 55R-WP4H: 257lbs (116.6kg)

SCHEMATIC DIAGRAMS

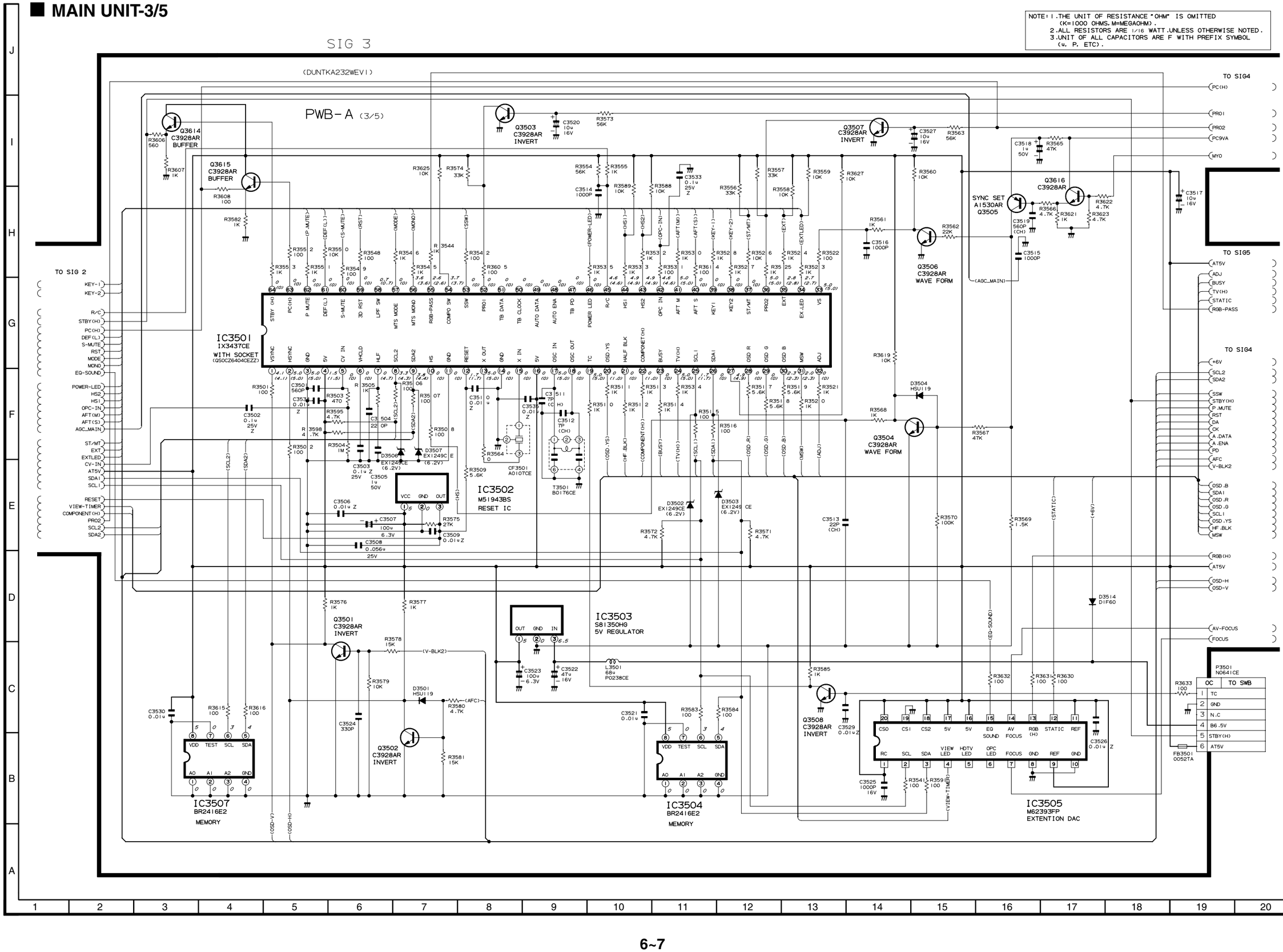
■ MAIN UNIT-1/5

NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGAOHM).
2.ALL RESISTORS ARE 1/16 WATT.UNLESS OTHERWISE NOTED.
3.UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL (u, P, ETC).



■ MAIN UNIT-3/5

NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHM).
2.ALL RESISTORS ARE 1/16 WATT.UNLESS OTHERWISE NOTED.
3.UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(u, P, ETC).



PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual; electrical components having such features are identified by ⚠ and shaded areas in the Replacement Parts Lists and Schematic Diagrams. The use of a substitute replacement part which dose no have the same safety characteristic as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

in **USA**: Contact your nearest SHARP Parts Distributor to order. For location of SHARP Parts Distributor, Please call Toll-Free; 1-800-BE-SHARP

★MARK: SPARE PARTS-DELIVERY SECTION

▲ MARK : X- RAY RELATED PARTS

Ref. No.	Part No.	★	Description	Code

PRINTED WIRING BOARD ASSEMBLIES
(NOT REPLACEMENT ITEM)

	DSETUA232FMV1S	M	Service chassis	DC
PWB-A	DUNTKA232WEV1	–	Main Unit	—

PWB-A: DUNTKA232WEV1
MAIN UNIT

RESISTOR

R3627	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide		AA

Ref. No.	Part No.	★	Description	Code

CABINET PARTS

2	GCOVA1051MESB	M	Control Cover	AR
3	GDORF1117MESB	M	Front Door	AL
4	HGRL-5004MESA	M	Speaker Grille (61R-WP4H)	BP
4	HGRL-5003MESA	M	Speaker Grille (55R-WP4H)	BT
7	HPNLC1107MEKB	M	Control Panel	AQ
10	CWAKP0109ME02	M	Frame-Top (61R-WP4H)	BQ
10	CWAKP0108ME02	M	Frame-Top (55R-WP4H)	BP
11	CWAKP0106ME02	M	Frame-Bottom(61R-WP4H)	AZ
11	CWAKP0107ME02	M	Frame-Bottom(55R-WP4H)	AY
12	CWAKP0103ME02	M	Frame-Side, x2(61R-WP4H)	AW
12	CWAKP0105ME02	M	Frame-Side, x2(55R-WP4H)	AX
24	HBDGB3121CESB	M	Badge	AF
29	HiNDP0111MEKZ	M	Indication Plate-Rear	AX
35	CHLDZ0105ME02	M	Corner (RT), x2	AE
36	CHLDZ0106ME02	M	Corner (LT), x2	AE

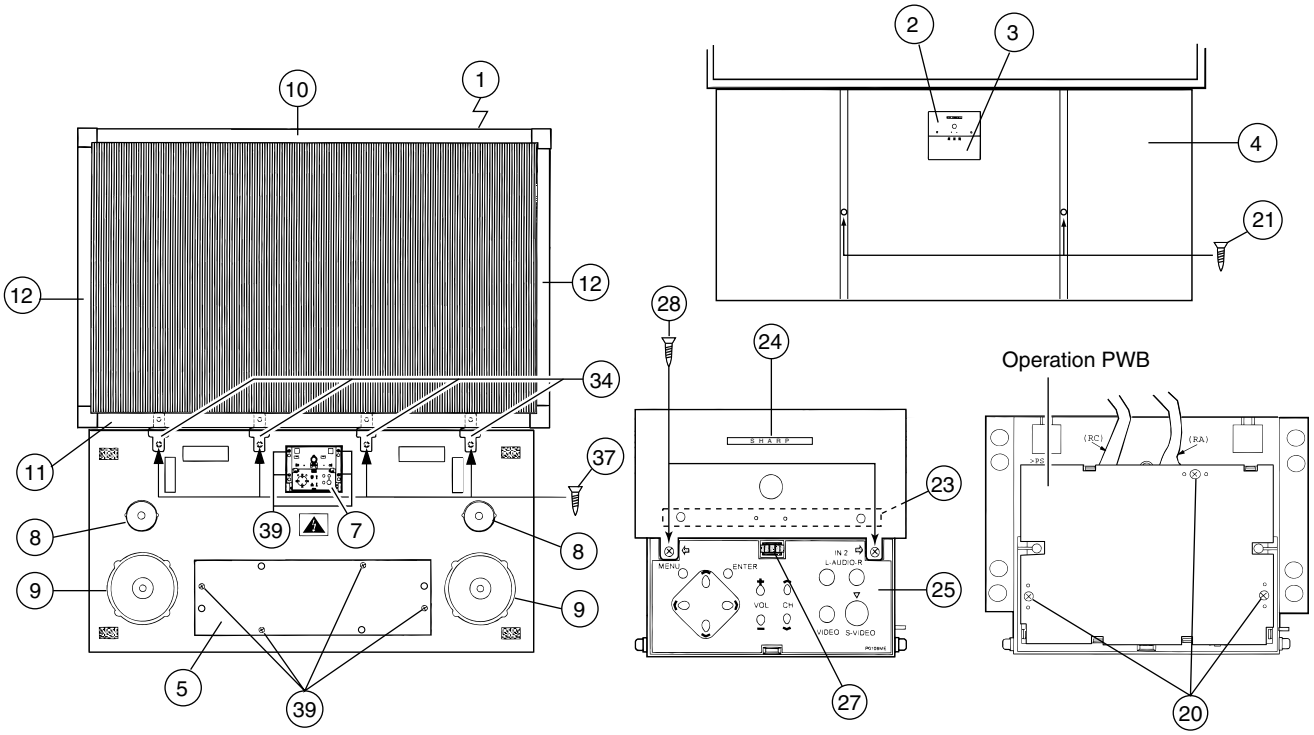
SUPPLIED ACCESORRIES

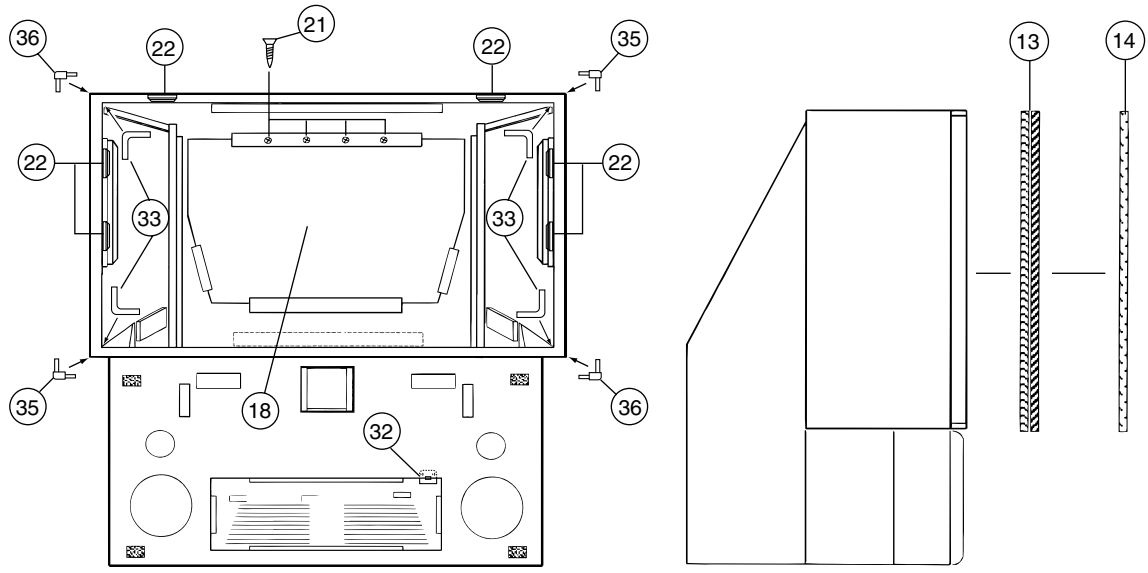
TGAN-1006MEZZ	M	Registration Card	AD
TiNS-7360MEZZ	M	Operation Manual	AK

PACKING PARTS
(NOT REPLACEMANT ITEM)

SPAKC0681MEZZ	–	Packing Case, Top (61R-WP4H)	—
SPAKC0684MEZZ	–	Packing Case, Top (55R-WP4H)	—

CABINET PARTS LOCATION





1	2	3	4	5	6

SHARP

COPYRIGHT © 2001 BY SHARP CORPORATION

ALL RIGHTS RESERVED.

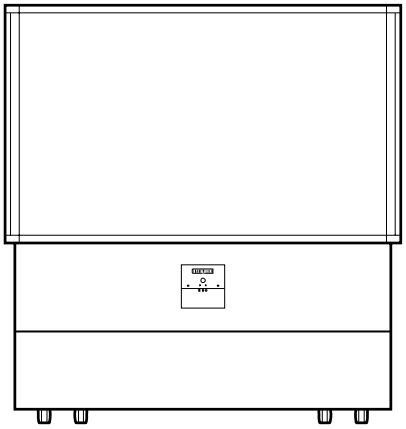
No part of this publication may be reproduced,
stored in a retrieval system, or transmitted in
any form or by any means, electronic, mechanical,
photocopying, recording, or otherwise, without
prior written permission of the publisher.

Ⓓ SMCA Ⓟ SMCA TQ1161-S
Jun. 2001 Printed in Japan
SY. KD

SHARP CORPORATION
AV Systems Group
Quality & Reliability Control Center
Yaita, Tochigi 329-2193, Japan

SHARP SERVICE MANUAL

S41S655R-WP5H



REAR PROJECTION TV

MODELS 61R-WP5H 55R-WP5H

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

CONTENTS

	Page		Page
• SPECIFICATIONS	2	• CHASSIS LAYOUT	42
• IMPORTANT SERVICE SAFETY PRECAUTION	3	• BLOCK DIAGRAM	46
• LOCATION OF USER CONTROL	12	• UNIT LAYOUT	48
• DIMENSIONS	15	• SCHEMATIC DIAGRAMS	50
• REMOVAL OF MAJOR PARTS	17	• PRINTED WIRING BOARD ASSEMBLIES	82
• DRESSING THE LEADS	20	• PARTS LIST	100
• ELECTRICAL ADJUSTMENT	24	• PACKING OF THE SET	129

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

Specifications

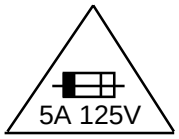
Model	61R-WP5H/55R-WP5H
Signal System	NTSC
Channel	AIR 2ch – 69ch CATV 1ch – 125ch
Antenna input	ANT A/B 75 Ω unbalance
Video input	(INPUT 1, 2, 3, 4) Composite Input jack: Pin-jack × 1 Input level: 1 Vp-p/75 Ω/negative sync
S video input	(INPUT 1, 2, 3) Y/C Y: 1 Vp-p/75 Ω/negative sync C: 0.286 Vp-p/75 Ω
Component input	(INPUT 4, 5) Component (Y, P_B, P_R) Input jack: Pin-jack × 3 (INPUT 4) Input signal: 480I, 480P, 720P, 1080I Y: 1Vp-p/75 Ω/negative sync P_B, P_R: 0.525 Vp-p/75 Ω (75 % saturation level)
HD input	(INPUT 3) R, G, B, H. V /R, G, B INPUT jack: Dsub 15 pin × 1 Input signal: 480P, 1080I RGB: 0.7 Vp-p/75 Ω/no sync HD/CS, VD: TTL level/positive and negative
AUDIO input	(INPUT 1, 2, 3, 4, 5) Input jack: Pin-jack × 2 0.5 Vrms/22 kΩ or over
VAO (Variable audio output)	Output jack: Pin-jack × 2 0.89 Vrms (max)/2.2 kΩ
Monitor Out	Video: Composite Video 1 Vp-p/75 Ω/negative Audio: 500 mVrms (100% modulation/Less than 1 kΩ)
Audio output	30 W (15 W + 15 W)
Power supply	120 V AC, 60Hz
Power consumption	290 W
Dimensions	61R-WP5H: $56^{21}/_{32}$" (W) × $57^{7}/_{8}$" (H) × $28^{45}/_{64}$" (D) [1439 mm (W) × 1470 mm (H) × 729 mm (D)] 55R-WP5H: $51^{17}/_{64}$" (W) × $50^{5}/_{64}$" (H) × $28\ ^{5}/_{32}$" (D) [1302 mm (W) × 1272 mm (H) × 715 mm (D)]
Weight	61R-WP5H: 298lbs (135.2 kg) 55R-WP5H: 257lbs (116.6 kg)

IMPORTANT SERVICE SAFETY PRECAUTION

■ **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:**

WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.
3. Semiconductor heat sinks are potential shock hazards when the chassis is operating.
4. The chassis in this receiver has two ground systems which are separated by insulating material. The non-isolated (hot) ground system is for the B+ voltage regulator circuit and the horizontal output circuit. The isolated ground system is for the low B+ DC voltages and the secondary circuit of the high voltage transformer.
   To prevent electrical shock use an isolation transformer between the line cord and power receptacle, when servicing this chassis.



CAUTION: FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE, REPLACE ONLY WITH SAME TYPE 5A-125V FUSE.

SERVICING OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

When servicing the high voltage system, remove the static charge by connecting a 10k ohm resistor in series with an insulated wire (such as a test probe) between the picture tube ground and the anode lead. (AC line cord should be disconnected from AC outlet.)

1. Picture tube in this receiver employs integral implosion protection.
2. Replace with tube of the same type number for continued safety.
3. Do not lift picture tube by the neck.
4. Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage anode completely.

X-RADIATION AND HIGH VOLTAGE LIMITS

1. Be sure all service personnel are aware of the procedures and instructions covering X-radiation. The only potential source of X-ray in current solid state TV receivers is the picture tube. However, the picture tube does not emit measurable X-Ray radiation, if the high voltage is as specified in the "High Voltage Check" instructions.
   It is only when high voltage is excessive that X-radiation is capable of penetrating the shell of the picture tube including the lead in the glass material. The important precaution is to keep the high voltage below the maximum level specified.
2. It is essential that servicemen have available at all times an accurate high voltage meter.
   The calibration of this meter should be checked periodically.
3. High voltage should always be kept at the rated value –no higher. Operation at higher voltages may cause a failure of the picture tube or high voltage circuitry and;also, under certain conditions, may produce radiation in exceeding of desirable levels.
4. When the high voltage regulator is operating properly there is no possibility of an X-radiation problem. Every time a color chassis is serviced, the brightness should be tested while monitoring the high voltage with a meter to be certain that the high voltage does not exceed the specified value and that it is regulating correctly.
5. Do not use a picture tube other than that specified or make unrecommended circuit modifications to the high voltage circuitry.
6. When trouble shooting and taking test measurements on a receiver with excessive high voltage, avoid being unnecessarily close to the receiver.
   Do not operate the receiver longer than is necessary to locate the cause of excessive voltage.

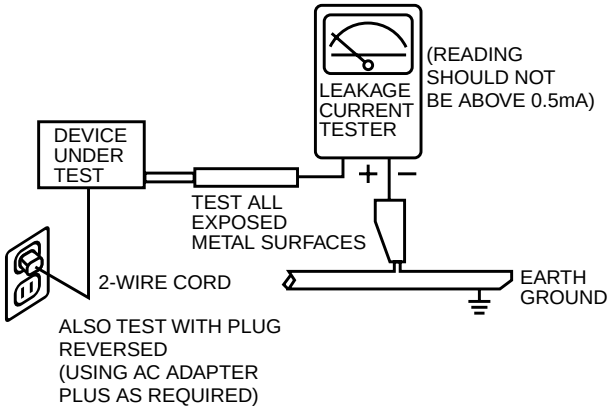
SAFETY PRECAUTIONS

1. Before returning an instrument to the customer, always make a safety check of the entire instrument, including but not limited to the following items.
   a. Be sure that no built-in protective devices are defective and/or have been deleted during servicing. (1) Protective shields are provided on this chassis to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience. (2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including but not limited to, nonmetallic control knobs, insulating fishpaper, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. **Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning. Servicers who defeat safety features or fail to perform safety checks may be liable for any resulting damage.**

   b. Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to (1) spacing between the picture tube and cabinet mask, (2) excessively wide cabinet ventilation slots, and (3) an improperly fitted and/or incorrectly secured cabinet back cover.

   c. **Antenna Cold Check** – With the instrument AC plug removed from any AC source, connect an electrical jumper across the two AC plug prongs. Place the instrument AC switch in the on position. Connect one lead of an ohmmeter to the AC plug prongs tied together and touch the other ohmmeter lead in turn to each tuner antenna input, exposed terminal screw and, if applicable, to the coaxial connector. If the measured resistance is less than 1.0 megohms or greater than 5.2 megohms, an abnormality exists that must be corrected before the instrument is returned to the customer. Repeat this test with the instrument AC switch in the off position.

   d. **Leakage Current Hot Check** – With the instrument completely reassembled, plug the AC line cord directly into a 120V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI) C101.0 Leakage Current for Appliances and Underwriters Laboratories (UL) 1492, (50.7). With the instrument AC switch first in the on position and then in the off position, measure from a known earth ground (metal waterpipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle bracket, metal cabinet, screw heads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milliamps. Reverse the instrument power cord plug in the outlet and repeat test.



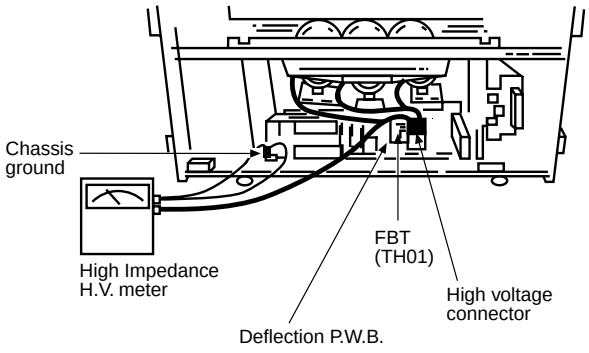
AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE INSTRUMENT TO THE CUSTOMER OR BEFORE CONNECTING THE ANTENNA OR ACCESSORIES.

   e. **High Voltage –** This receiver is provided with a hold down circuit for clearly indicating that voltage has increased in excess of a predetermined value. Comply will all notes described in this Service Manual regarding this hold down circuit when servicing, so that this hold down circuit may correctly be operated.

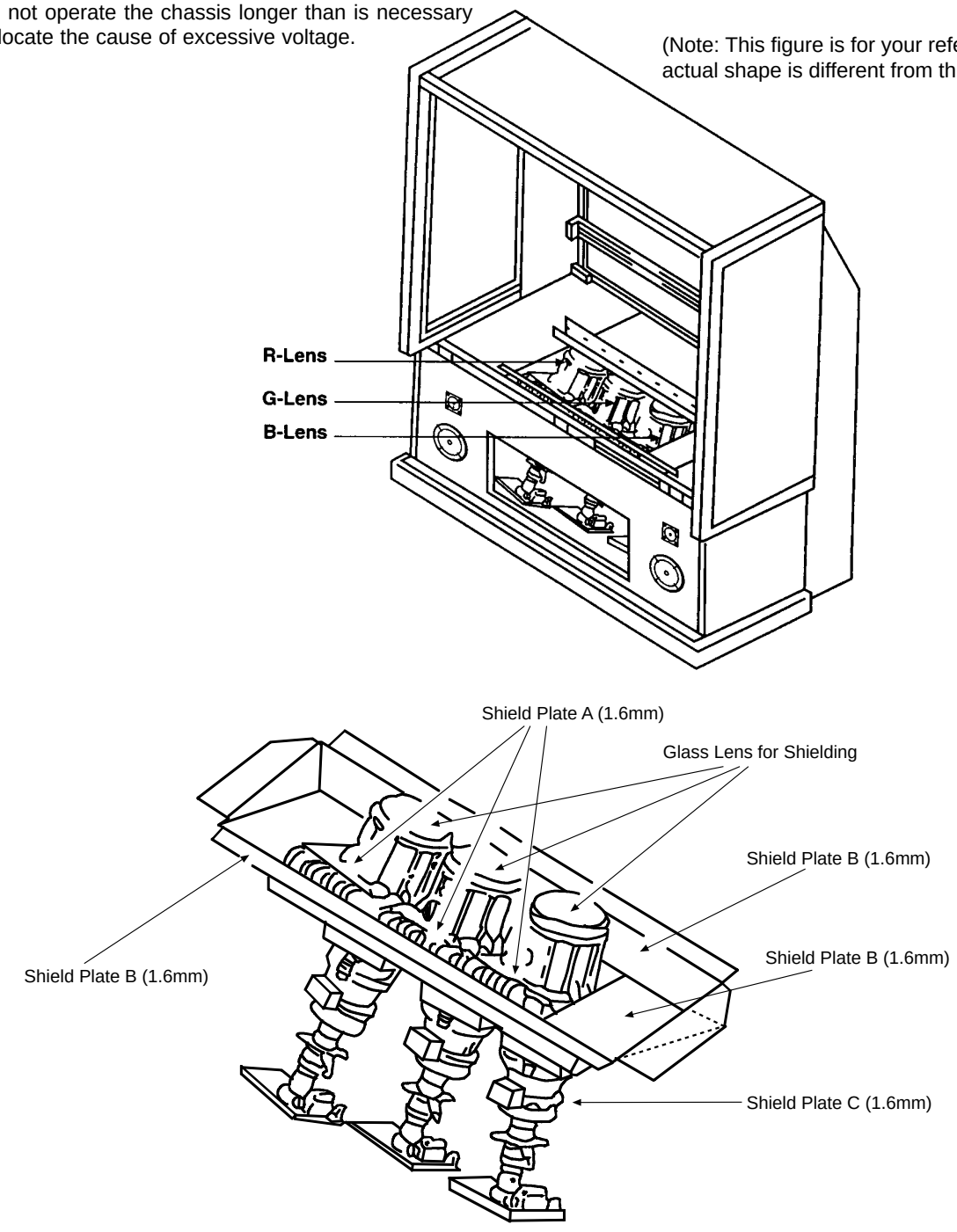
   f. **Service Warning –** With maximum contrast, operating high voltage in this receiver is lower than **32.5 kV.** In case any component having influence on high voltage is replaced, confirm that the high voltage with maximum contrast is lower than **32.5 kV.**
   To measure H.V. use a high impedance H.V. meter. Connect (-) to chassis earth and (+) to the CRT anode button. (See the following connection diagram.)

   Note: Turn power switch off without fail before the connection to the anode button is made.



g. **X-radiation – TUBE:** The primary source of X-radiation in this receiver is the picture tube. The tube utilized for the above mentioned function in this chassis is specially constructed to limit X-radiation emissions.
For continued X-radiation protection, the replacement tube must be the same type as the original, Sharp approved type.
When troubleshooting and making test measurements in a receiver with a problem of excessive high voltage, avoid being unnecessarily close to the picture tube and the high voltage component.
Do not operate the chassis longer than is necessary to locate the cause of excessive voltage.

(Note: This figure is for your reference. The body's actual shape is different from this one.)



Detailing X-radiation shield, ( ) plate thickness

Fig. 1. Installation of shield lens, shield cover and shield plates (oblique view).

2. Read and comply with all caution and safety-related notes on or inside the receiver cabinet, on the receiver chassis, or on the picture tube.

3. **Design Alteration Warning** – Do not alter or add to the mechanical or electrical design of this TV receiver. Design alterations and additions including but not limited to circuit modifications and the addition of items such as auxiliary audio and/or video output connectors, might alter the safety characteristics of this receiver and create a hazard to the user. Any design alterations or additions may void the manufacturer's warranty and may make you, the servicer, responsible for personal injury or property damage resulting therefrom.

4. **Picture Tube Implosion Protection Warning** – The picture tube in this receiver employs integral implosion protection. For continued implosion protection, replace the picture tube only with one of the same type number. Do not remove, install, or otherwise handle the picture tube in any manner without first putting on shatterproof goggles equipped with side shields. People not so equipped must be kept safely away while picture tubes are handled. Keep the picture tube away from your body. Do not handle the picture tube by its neck.

5. **Hot Chassis Warning** – **a.** Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord and may be safely serviced without an isolation transformer only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC power source. Confirm that the AC power plug is inserted correctly with an AC voltmeter by measuring between the chassis and a known earth ground. If a voltage reading in excess of 1.0V is obtained, remove and reinsert the AC power plug in the opposite polarity and again measure the voltage potential between the chassis and a known earth ground. **b.** Some TV receiver chassis normally have 85V AC (RMS) between chassis and earth ground regardless of the AC plug polarity. These chassis can be safely serviced only with an isolation transformer inserted in the power line between the receiver and the AC power source, for both personnel and test equipment protection. c. Some TV receiver chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulating material that must not be defeated or altered.

6. Observe original lead dress. Take extra care to assure correct lead dress in the following areas: **a.** near sharp edges, **b.** near thermally hot parts – be sure that leads and components do not touch thermally hot parts, **c.** the AC supply, **d.** high voltage and **e.** antenna wiring. Always inspect in all areas for pinched, out-of-plate, or frayed wiring. Do not change spacing between components and the printed circuit board. Check AC power cord for damage.

7. Components, parts, and/or wiring that appear to have overheated or are otherwise damaged should be replaced with components, parts, or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.

8. **PRODUCT SAFETY NOTICE** – Many TV electrical and mechanical parts have special safety-related characteristics some of which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified in Sharp service data by shading on schematics and by a ⚠ in the parts list. Use of substitute replacement that does not have the same safety characteristics as the recommended replacement part in Sharp service data parts list might create shock, fire, and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate. For the latest information, always consult the appropriate current Sharp service literature. A subscription to, or additional copies of service literature may be obtained at a nominal charge from Sharp.

SERVICING PRECAUTIONS

CAUTION: Before servicing instruments covered by this service data and its supplements and addenda, read and follow the SAFETY PRECAUTIONS on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Guidelines

1. Always unplug the instrument AC power cord from the AC power source before:
   a. Removing or reinstalling any component, circuit board, module, or any other instrument assembly.

   b. Disconnecting or reconnecting any instrument electrical plug or other electrical connection.

   c. Connecting a test substitute in parallel with an electrolytic capacitor in the instrument.
      CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

   d. Discharging the picture tube anode.

2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc.) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc." The H.V. Distribution Box has an internal 400MΩ resistor (bleeder resistor) connected from the high voltage to ground. After power is removed from the instrument the high voltage will discharge through the high voltage bleeder resistor. If the tubes have high voltage after power is removed, then the bleeder resistor is defective or the bleeder ground is disconnected.

3. Discharge the picture tube's anode at any of the R, G, or B outputs on the H.V. Distribution Box only by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube high voltage distribution box R, G, or B output, using an insulated handle to avoid personal contact with high voltage.

4. Do not spray chemicals on or near this instrument or any of its assemblies.

5. Unless specified otherwise in these service data, clean electrical contracts by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable nonabrasive applicator: 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength).
   CAUTION: This is a flammable mixture. Unless specified otherwise in these service data, lubrication of contacts is not required.

6. Do not defeat any plug/socket B+ voltage interlocks with which instruments covered by this service data might be equipped.

7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat-sinks are correctly installed.

8. Always connect the test instrument ground lead to the appropriate instrument chassis ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.

9. Use with this instrument only the test fixtures specified in this service data.
   CAUTION: Do not connect the test fixture ground strap to any heatsink in this instrument.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.

3. Use only a grounded-tip soldering iron to solder or desolder ES devices.

4. Use only can anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES device.

5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.

6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material.)

7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static charges.

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range 500°F to 600°F.

2. Use an appropriate gauge of resin-core solder composed of 60 parts tin/40 parts lead.

3. Keep the soldering iron tip clean and well-tinned.

4. Thoroughly clean the surfaces to be soldered. Use a small wire-bristle (0.5 inch or 1.25 cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.

5. Use the following desoldering technique.
   a. Allow the soldering iron tip to reach normal temperature (500°F to 600°F).

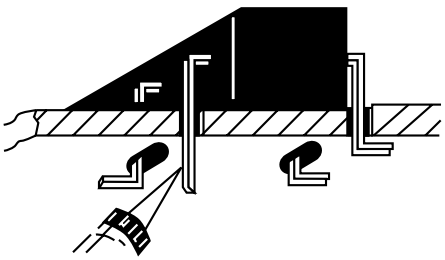
   b. Heat the component lead until the solder melts. Quickly draw away the melted solder with an anti-static, suction-type solder removal device or with solder braid.
      CAUTION: Work quickly to avoid overheating the circuit board printed foil.

6. Use the following soldering technique.
   a. Allow the soldering iron tip to reach normal temperature (500°F to 600°F).

   b. First, hold the soldering iron tip and solder strand against the component lead until the solder melts.

   c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
      CAUTION: Work quickly to avoid overheating the circuit board printed foil or components.

   d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.



Use Solding Iron to Pry Leads

IC Removal/Replacement

Some Sharp unitized chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.

2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.

2. Carefully bend each IC lead against the circuit foil pad and solder it.

3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to areas.)

"Small-signal" Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.

2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.

3. Bend into a "U" shape the replacement transistor leads.

4. Connect to replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact, then solder each connection.

Power Output Transistor Devices Removal/Replacements

1. Heat and remove all solder from around the transistor leads.

2. Remove the heatsink mounting screw (if so equipped).

3. Carefully remove the transistor from the circuit board.

4. Insert new transistor in circuit board.

5. Solder each transistor lead, and clip off excess lead.

6. Replace heatsink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.

2. Bend the two remaining leads perpendicularly to the circuit board.

3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.

4. Securely crimp each connection and solder it.

5. Inspect (on the circuit board copper side) the solder joints of the two "original leads". If they are not shiny, reheat them and, if necessary, apply additional solder.

Fuses and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of circuit board hollow stake.

2. Securely crimp leads of replacement component around stake 1/8 inch from top.

3. Solder the connections.
   CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board, to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board, causing the foil to separate from, or "lift-off," the board. The following guidelines and procedures should be followed whenever this condition is encountered.

In Critical Copper Pattern Areas

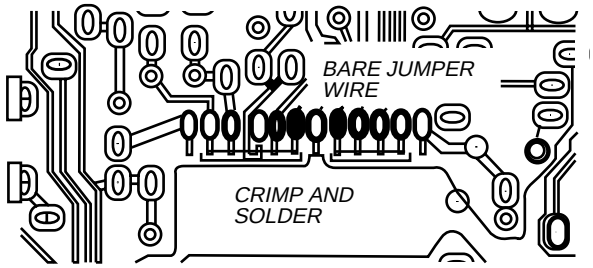
High component/copper pattern density and/or special voltage/current characteristics make the spacing and integrity of copper pattern in some circuit board areas more critical than in others. The circuit foil in these areas is designated as Critical Copper Pattern. Because Critical Copper Pattern requires special soldering techniques to ensure the maintenance of reliability and safety standards, contact your Sharp personnel.

At IC Connections

To repair defective copper pattern at IC connections, use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections.)

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary.)

2. Carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.



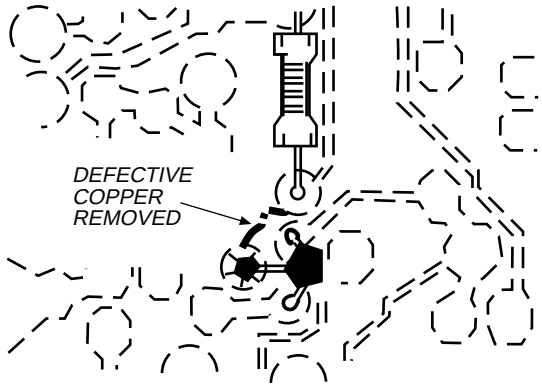
Install Jumper Wire and Solder

3. Bend a small "U" in one end of a small-gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.

4. Route the jumper wire along the path of the cut-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area, and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.



Insulated Jumper Wire

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure hazardous condition will not exist if the jumper wire opens.

2. Trace along the copper pattern from both wire sides of the pattern break and locate the nearest component directly connected to the affected copper pattern.

3. Connect insulated 20-gauge jumper wire from the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.
   CAUTION: Be sure the insulated jumper wire is dressed so that it does not touch components or sharp edges.

Frequency Synthesis (FS) Tuning Systems

1. Always unplug the instrument AC power cord before disconnecting or reconnecting FS tuning system cables and before removing or inserting FS tuning system modules.

2. The FS tuner must never be disconnected from the FS tuning control module while power is applied to the instrument.

3. When troubleshooting intermittent problems that might be caused by defective cable connection(s) to the FS tuning system, remove the instrument AC power as soon as the defective connector is found and finish confirming the bad connection with a continuity test. This procedure will reduce the probability of electrical overstress of the FS system semi-conductor components.

NOTE: ***These components are affixed with glue. Be careful not to break or damage any foil under the component or at the pins of the ICs when removing. Usually applying heat to the component for a short time while twisting with tweezers will break the component loose.***

Leadless Chip Components (surface mount)

Chip components must be replaced with identical chips due to critical foil track spacing. There are no holes in the board to mount standard transistors or diodes. Some chip capacitor or resistor board solder pads may have holes through the board, however the hole diameter limits standard resistor replacement to 1/8 watt. Standard capacitors may also be limited for the same reason. It is recommended that identical chip components be used. .

Chip resistors have a three digit numerical resistance code -1st and 2nd significant digits and a multiplier. Example: 162 = 1600 or 1.6KΩ resistor, 0 = 0Ω (jumper).

Chip capacitors generally do not have the value indicated on the capacitor. The color of the component indicates the general range of the capacitance.

Chip transistors are identified by a two letter code. The first letter indicates the type and the second letter, the grade of transistor.

Chip diodes have a two letter identification code as per the code chart and are a dual diode pack with either

common anode or common cathode. Check the parts list for correct diode number.

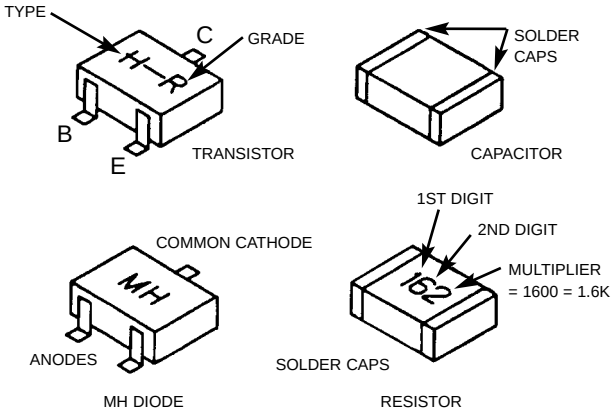
Component Removal

1. Use solder wick to remove solder from component end caps or terminals.
2. Without pulling up, carefully twist the component with tweezers to break the adhesive.
3. Do not reuse removed leadless or chip components since they are subject to stress fracture during removal .

Chip Component Installation

1. Put a small amount of solder on the board soldering pads.
2. Hold the chip component against the soldering pads with tweezers or with a miniature alligator clip and apply heat to the pad area with a 30 watt iron until solder flows. Do not apply heat for more than 3 seconds

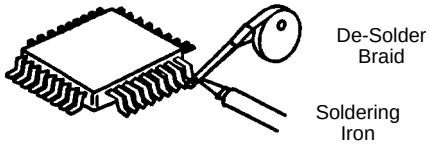
Chip Components



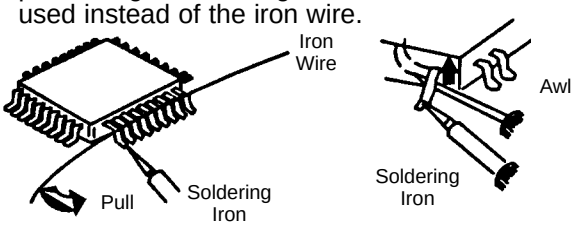
How to Replace Flat-IC —Required Tools—

- Soldering iron
- iron wire or small awl
- De-solder braids
- Magnifier

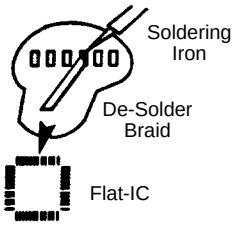
1. Remove the solder from all of the pins of a Flat-IC by using a de-solder braid.



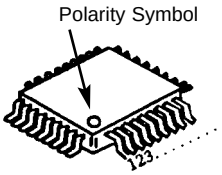
2. Put the iron wire under the pins of the Flat-IC and pull it in the direction indicated while heating the pins using a soldering iron. A small awl can be used instead of the iron wire.



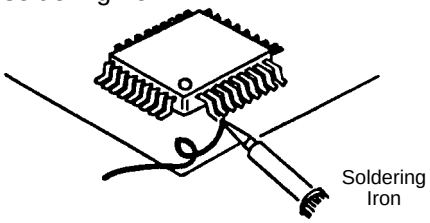
3. Remove the solder from all of the pads of the Fiat-IC by using a de-solder braid.



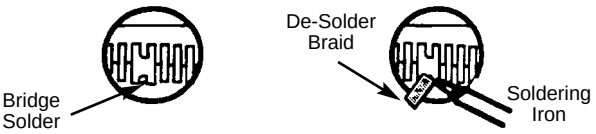
4. Position the new Flat-IC in place (apply the pins of the Flat-IC to the soldering pads where the pins need to be soldered). Properly determine the positions of the soldering pads and pins by correctly aligning the polarity symbol.



5. Solder all pins to the soldering pads using a fine tipped soldering iron.



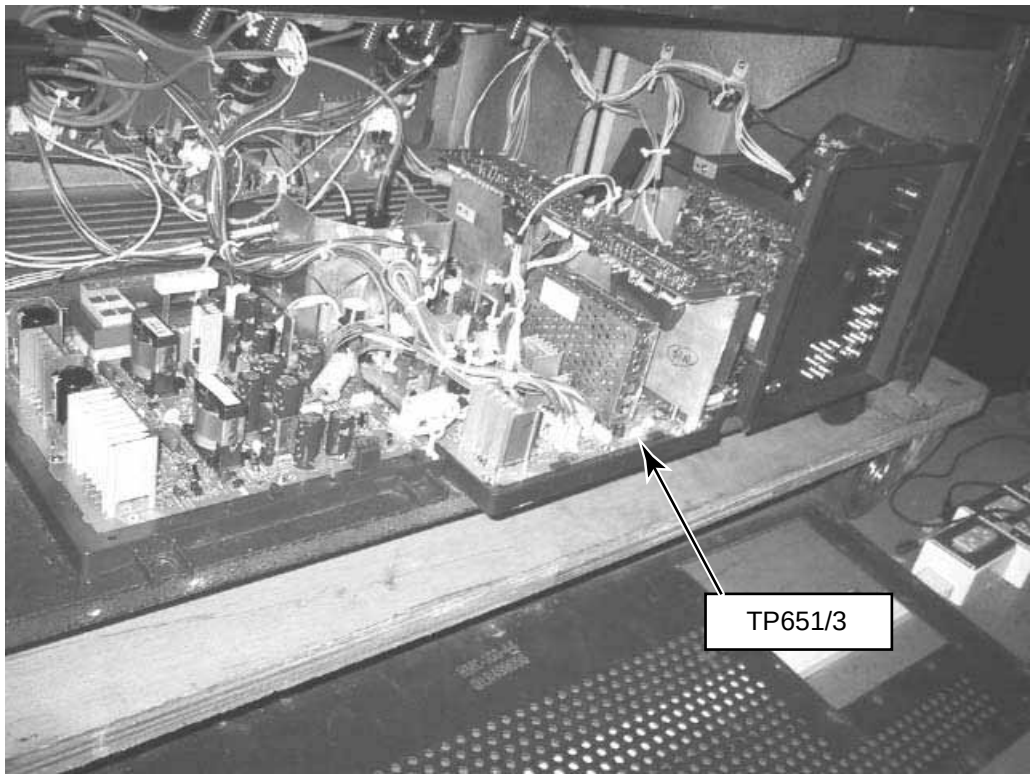
6. Check with a magnifier for solder bridge between the pins or for dry joint between pins and soldering pads. To remove a solder bridge, use a de-solder braid as shown in the figure below.



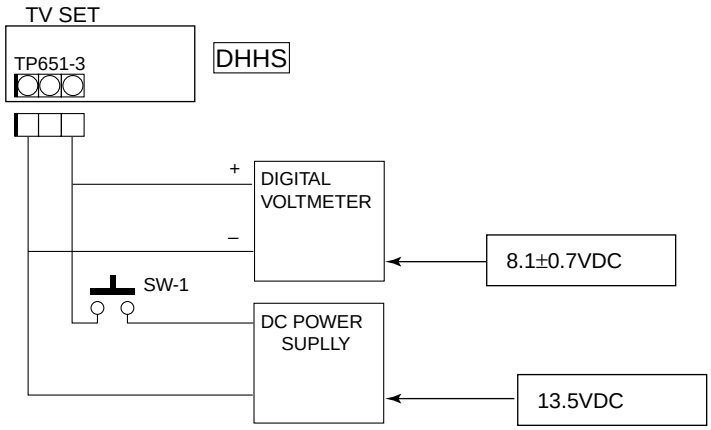
High Voltage Shutdown Circuit Operation Check

1. Turn off TV and connect Jig as shown in Figure.
2. Set the AC line voltage to 120V AC and turn on the TV.
3. Confirm a usable picture by receiving a TV test pattern.
4. Measure the normal voltage between TP653 and TP651. It should be 8.1± 0.7VDC.
5. Insert 13.5VDC between TP653 and TP651 and confirm that high voltage shutdown occurred.
6. Turn off TV and disconnect Jig.

TV Test Point

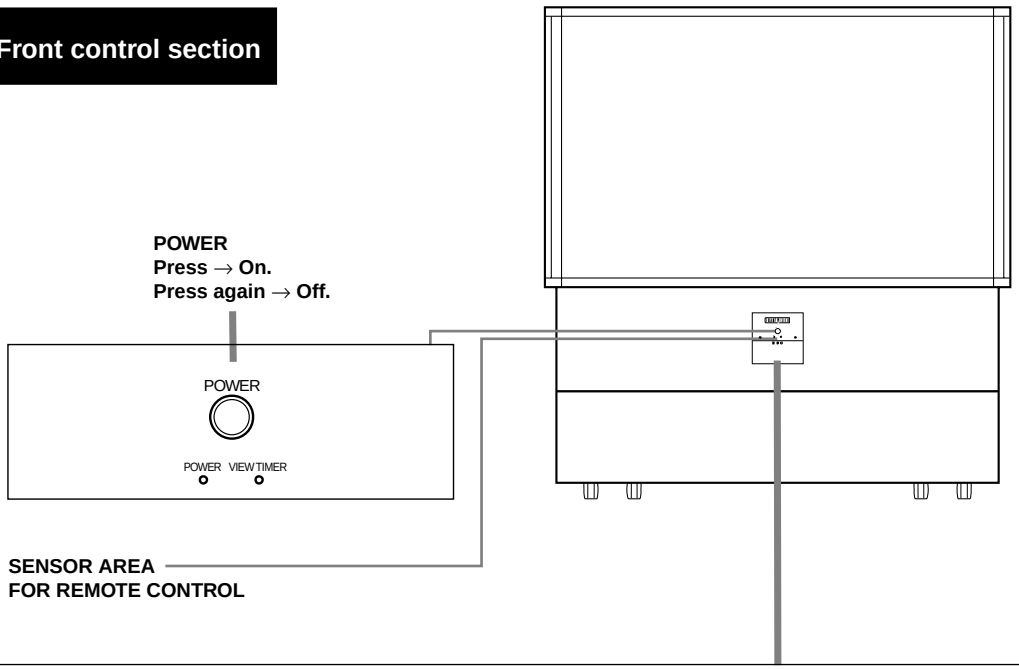


Test Jig

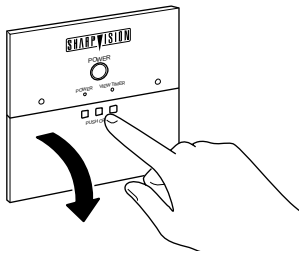


LOCATION OF USER CONTROL

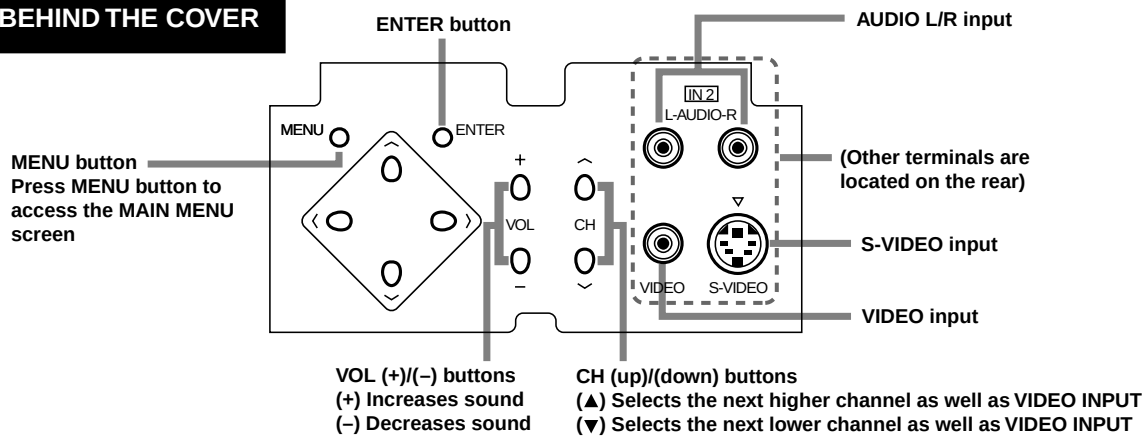
Front control section



To open the cover



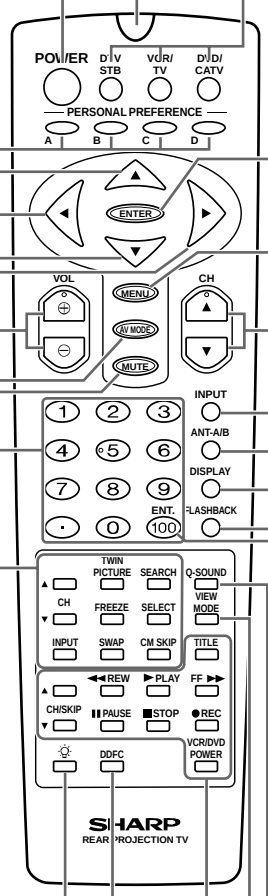
BEHIND THE COVER



Note

- If the Rear Projection TV is not used for a long period or during a blackout, turn OFF the POWER of the main unit to prevent the Rear Projection TV from malfunctioning. (e.g. If the TV POWER is set to ON during blackout, the state of Rear Projection TV before the blackout is remaining, the TV POWER switches to ON when the electricity is restored.)

LOCATION OF USER CONTROL (Continued)



INFRARED TRANSMITTER WINDOW

POWER
Press → On.
Press again → Off. (Stand-by)

PERSONAL PREFERENCE buttons
• Used to select any of four preset channels.

Cursor buttons
Used to move cursor on menu screen.

VOLUME UP/DOWN
(+) Increases sound.
(–) Decreases sound.

AV MODE

MUTE
Press → Mutes sound.
Press again → Restores sound.
• CLOSED CAPTION appears when sound is muted.

DIRECT ACCESS
Accesses any channel/inputs numbers by the keypad.
⊙ button: DTV Decoder only

POP FUNCTION
You can watch two pictures at the same time.

▼-CH-▲:	Used to switch the channel for the sub-picture of the TWIN PICTURE screen.
INPUT:	Used to select the source from INPUT terminals for the sub-picture of the TWIN PICTURE screen.
TWIN PICTURE:	Splits the screen into two smaller equally sized screens, when pressed again, enlarges the left screen, and, if pressed again, exits the function.
SEARCH:	Press to select the SEARCH screen mode.
SELECT:	Selects the screen in TWIN PICTURE and Search screen modes.
FREEZE:	When this button is pressed with the regular screen, will change to the TWIN PICTURE screen and the picture at the time the button was pressed will become the sub-picture, displayed as a frozen image.
SWAP:	The left and right screens are interchanged with the TWIN PICTURE function.
CM SKIP:	Use this function when you want to scan other channels during a commercial break.

LIGHT
When this button is pressed, some buttons on the remote control unit will light. The lighting will turn off if no operations are performed within about six seconds. This button is used for performing operations in dark places.

Remote control mode select buttons
Use to switch the remote control unit modes.
• By selecting one of the three mode select buttons, this remote control can be used to adjust common functions, such as channel selection, for that device.

ENTER button

MENU
Press → Accesses MAIN MENU.
Press again → Exits MAIN MENU.

CHANNEL UP/DOWN
(+) Selects the next higher channel.
(–) Selects the next lower channel.

INPUT
Press → Switches to external video INPUT 1 mode.
Press again → Switches to external video INPUT 2 mode.
Press 3 times → Switches to external video INPUT 3 mode.
Press 4 times → Switches to external video INPUT 4 mode.
Press 5 times → Switches to external video INPUT 5 mode.
Press 6 times → Switches back to the original TV mode.

ANT-A/B button
Press to switch between ANTENNA-A and ANTENNA-B when you wish to watch TV.

DISPLAY
Press → Displays receiving channel for four seconds.
Press again → Displays remaining time of SLEEP TIMER and VIEW TIMER for four seconds.

FLASHBACK
Returns to previously viewed channel.

ENT.
Used in some instances where a Cable Converter Box requires an "enter" command after selecting channels, when using the DIRECT ACCESS button.

Q-SOUND
Controls the surround settings.

VIEW MODE
Select view size.

VCR/DVD CONTROL

DDFC
Used to select High-quality image.

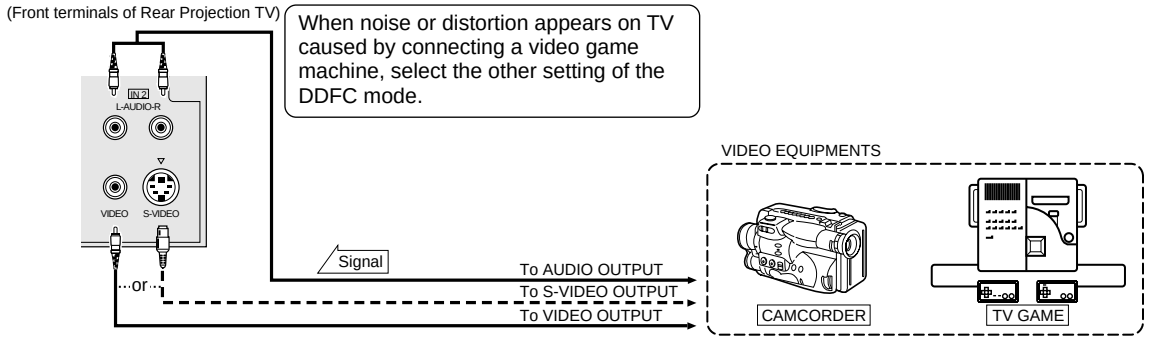
Note
- The light button on the Remote Control glows in the dark. To use the glow-in-the-dark display on the remote control, place it under a fluorescent light or other lighting.
- The phosphorescent material contains no radioactive or toxic material, so it is safe to use.
- The degree of illumination will vary depending on the strength of lighting used.
- The degree of illumination will decrease with time and depending on the temperature.
- The time needed to charge the phosphorescent display will vary depending on the surrounding lighting.

Using the Video and Audio Input Jacks

■ Connecting video equipment for video playback

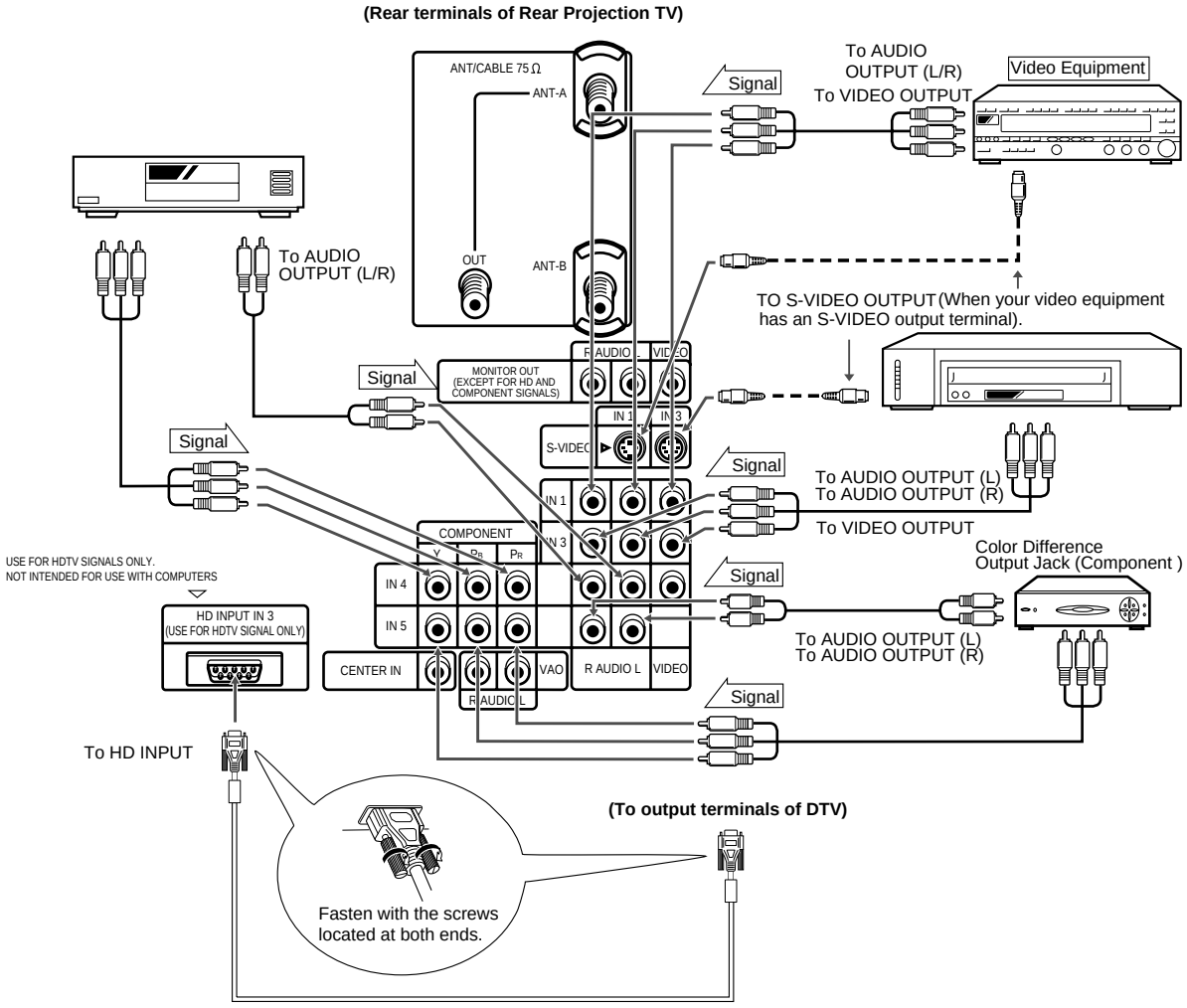
- When the television is connected to video equipment as shown below, the material being played back on the video equipment can be seen on the television screen.

Connecting a video device equipped with a video output terminal



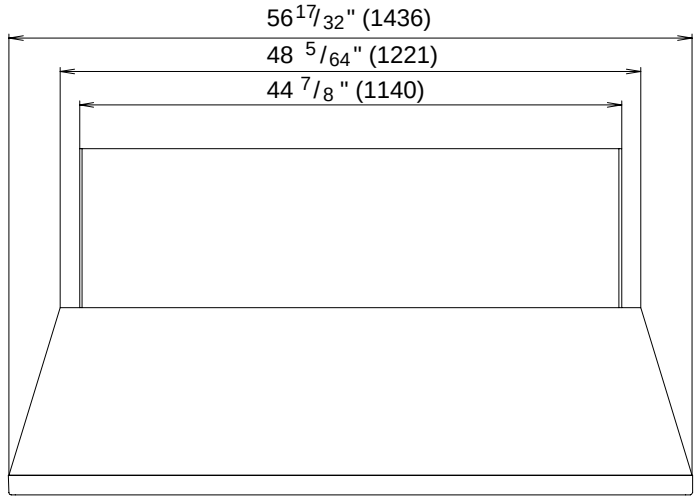
Note

- The S-VIDEO INPUT terminals offer a higher quality image by accepting the image signal separated into color and brightness signals.
- S-VIDEO INPUT terminals are for video signals only. The audio signals are connected to either IN 1 or IN 3 AUDIO terminals (left and right).

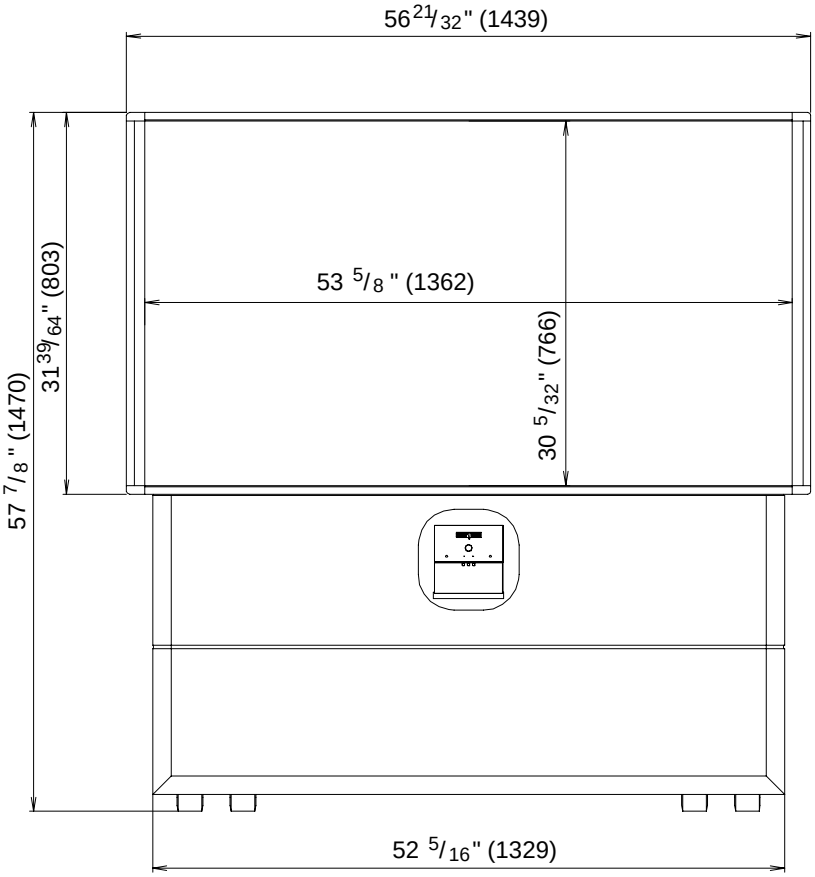


DIMENSIONS (61R-WP5H)

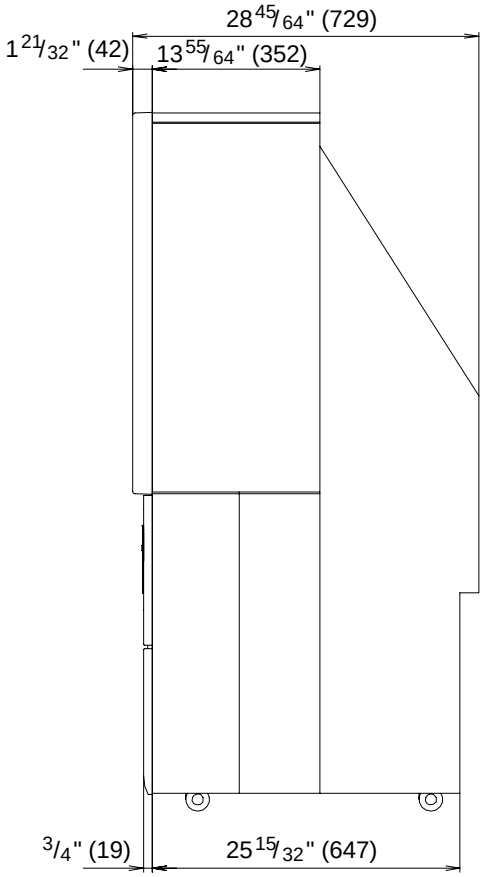
Top View



Front View



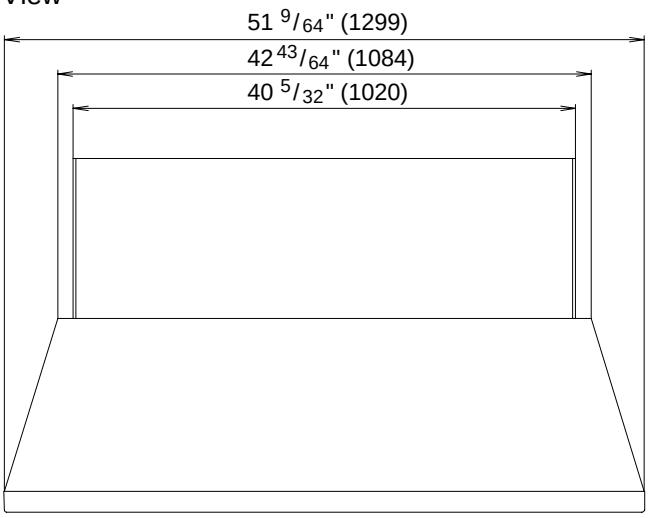
Side View



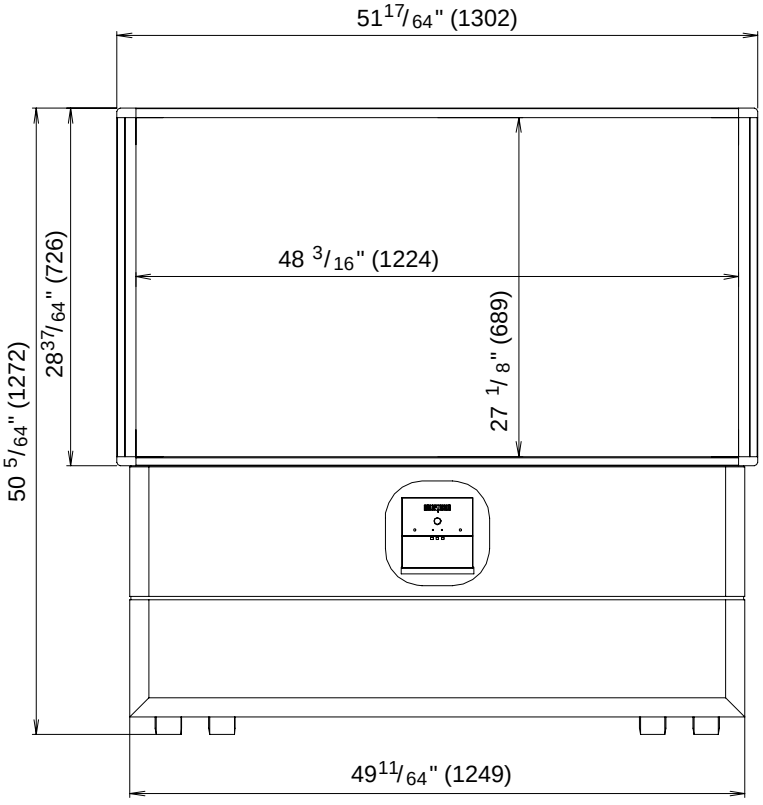
Units: inches (mm)

DIMENSIONS (55R-WP5H)

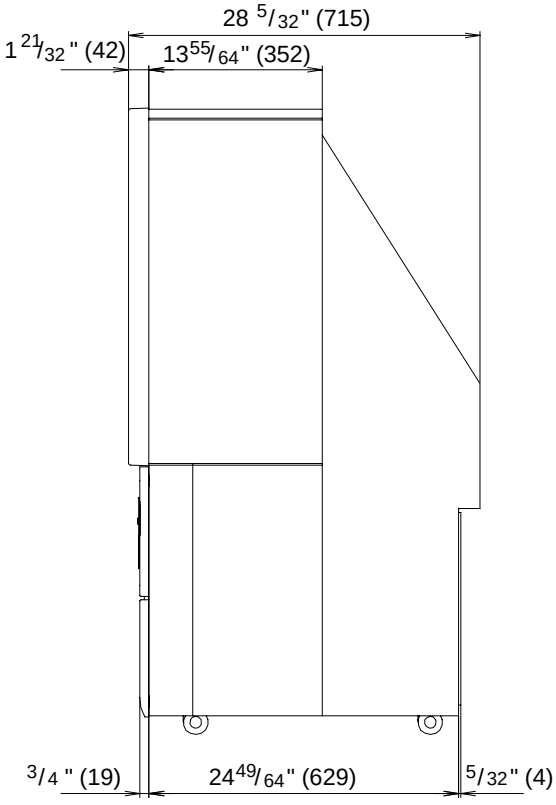
Top View



Front View



Side View

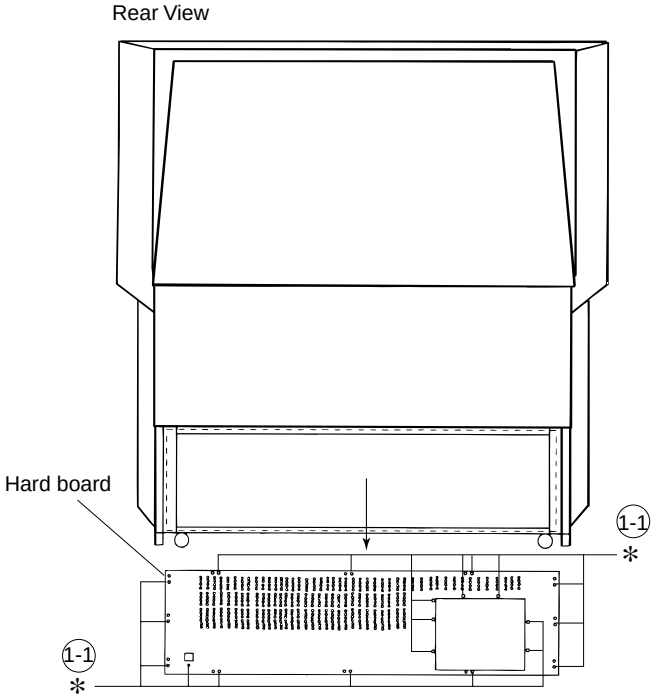


Units: inches (mm)

REMOVAL OF MAJOR PARTS

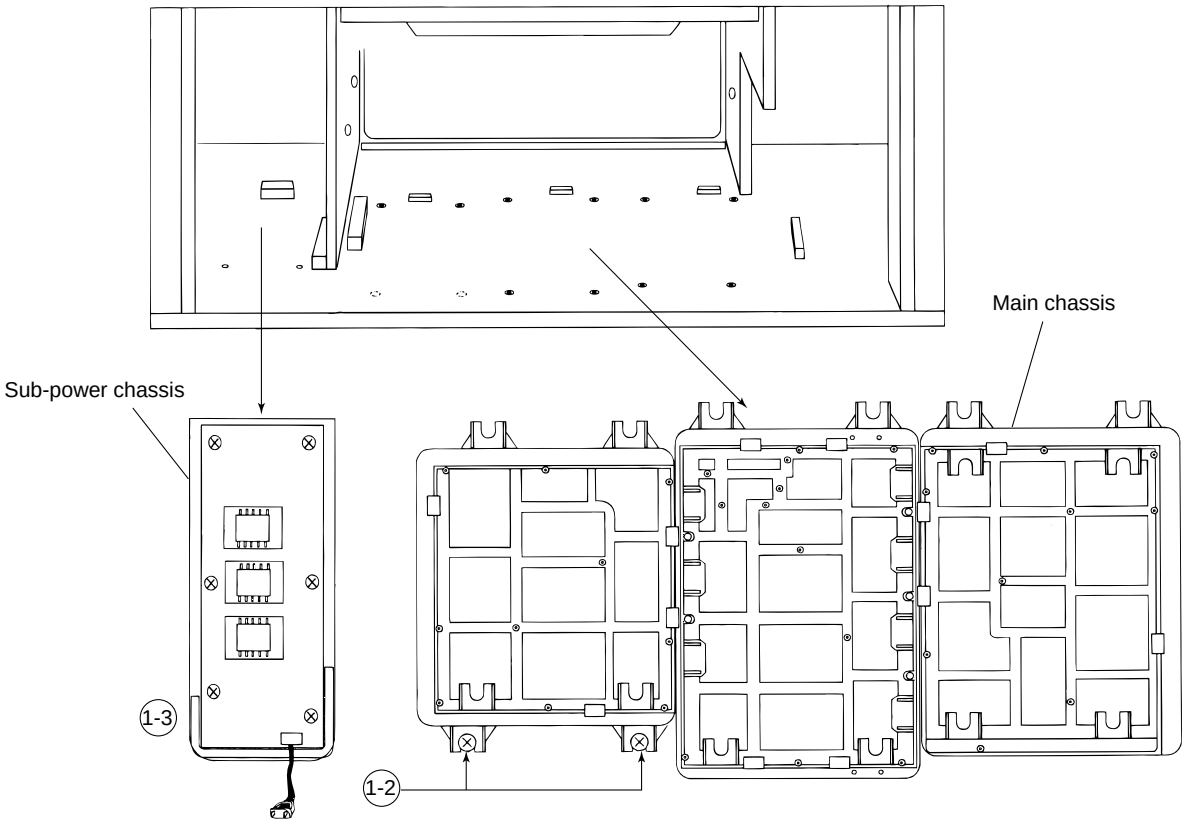
1. Detaching the chassis

1-1. Remove the twenty screws from the hard board at the back. Detach the hard board.



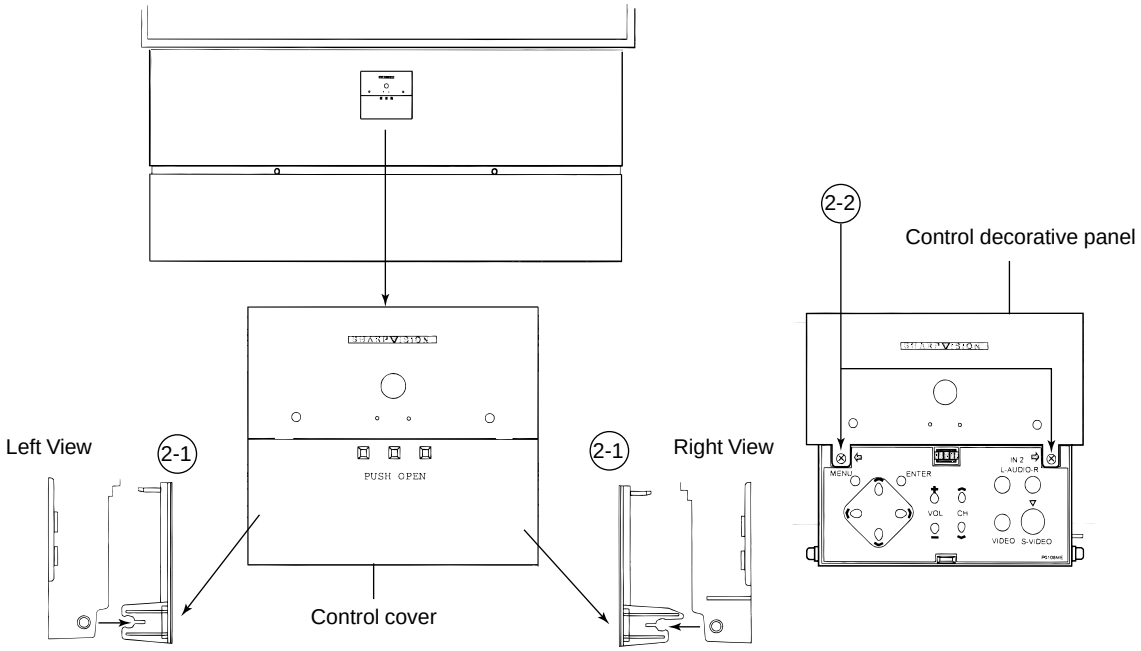
1-2. Remove the two screws from the back of the chassis and disconnect the connectors. Draw out the chassis. (Place the connectors neatly on the circuit board.)

1-3. With the hard board removed, disconnect the connectors between the sub-power chassis and the main chassis.

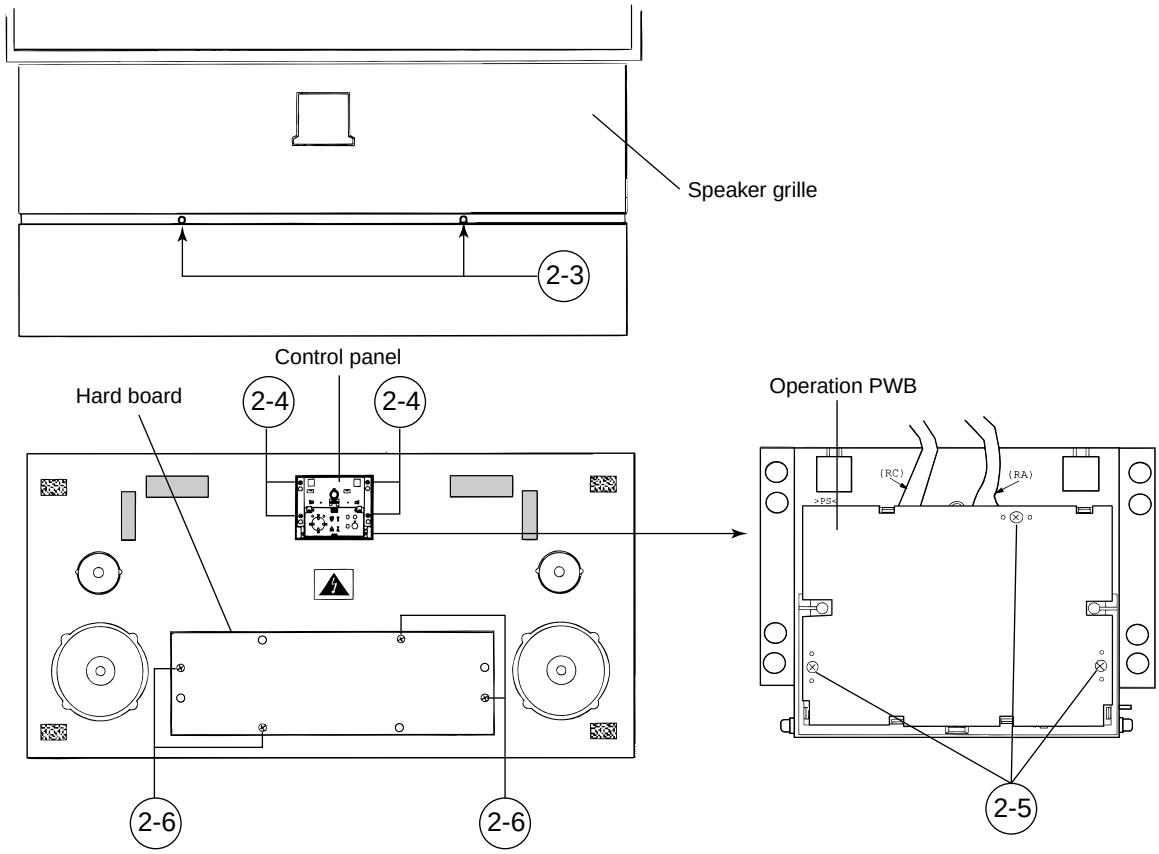


2. Taking out the cathode ray tube

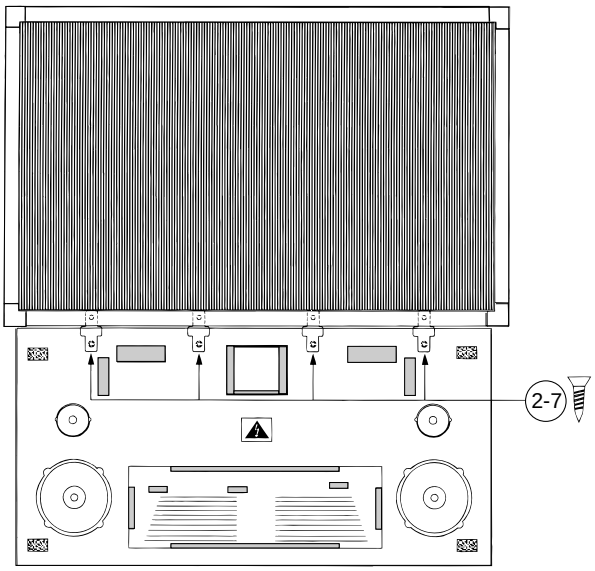
2-1. Open the control cover. While pulling it toward yourself, undo the catches from the swivel shaft.
2-2. Remove the two screws from the control decorative panel. Lift and tilt the panel's bottom toward you and detach the panel.



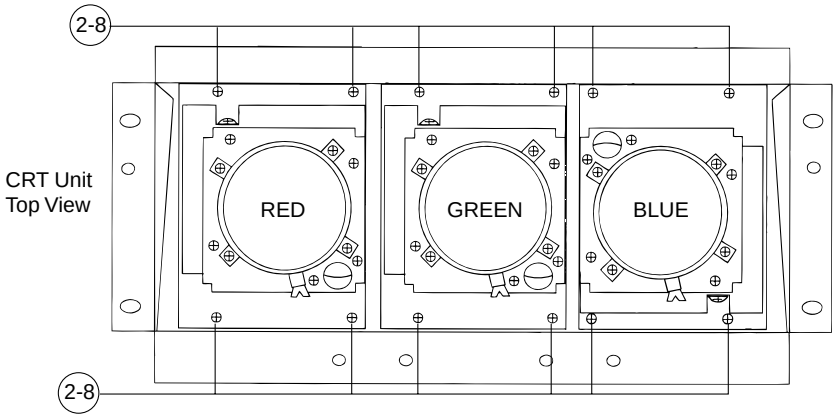
2-3. Remove the two screws from the speaker grille. Undo the four Velcro-taped points and detach the speaker grille.
2-4. Remove the four screws from the control panel. Detach the control panel.
2-5. Remove the three screws from the operation PWB. Disconnect all the connectors, undo the hooks and detach the operation PWB.
2-6. Remove the four screws from the hard board. Detach the hard board.



2-7. Remove the four screws from the bottom of the screen frame. Put your hand in between the bottom center of the screen frame and the cabinet. Pull out the frame.



2-8. The angles are secured on the cabinet. The CRT unit's aluminum diecast section is fixed on these angles. To detach each CRT unit, remove the four screws near the posts at the aluminum die cast section and then pull out the unit upward.



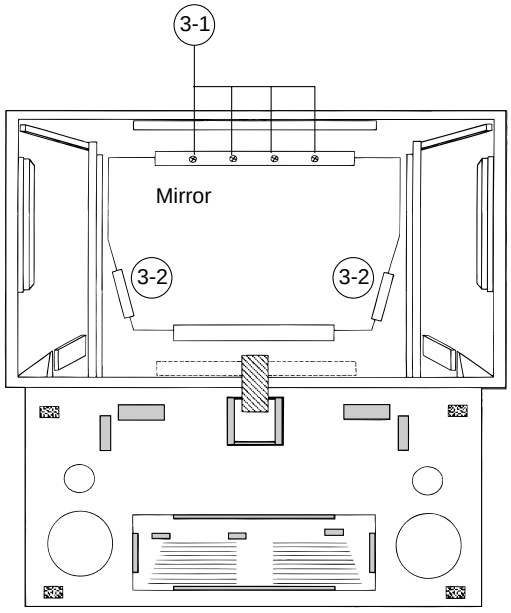
3. Detaching the mirror

(Initial setup)

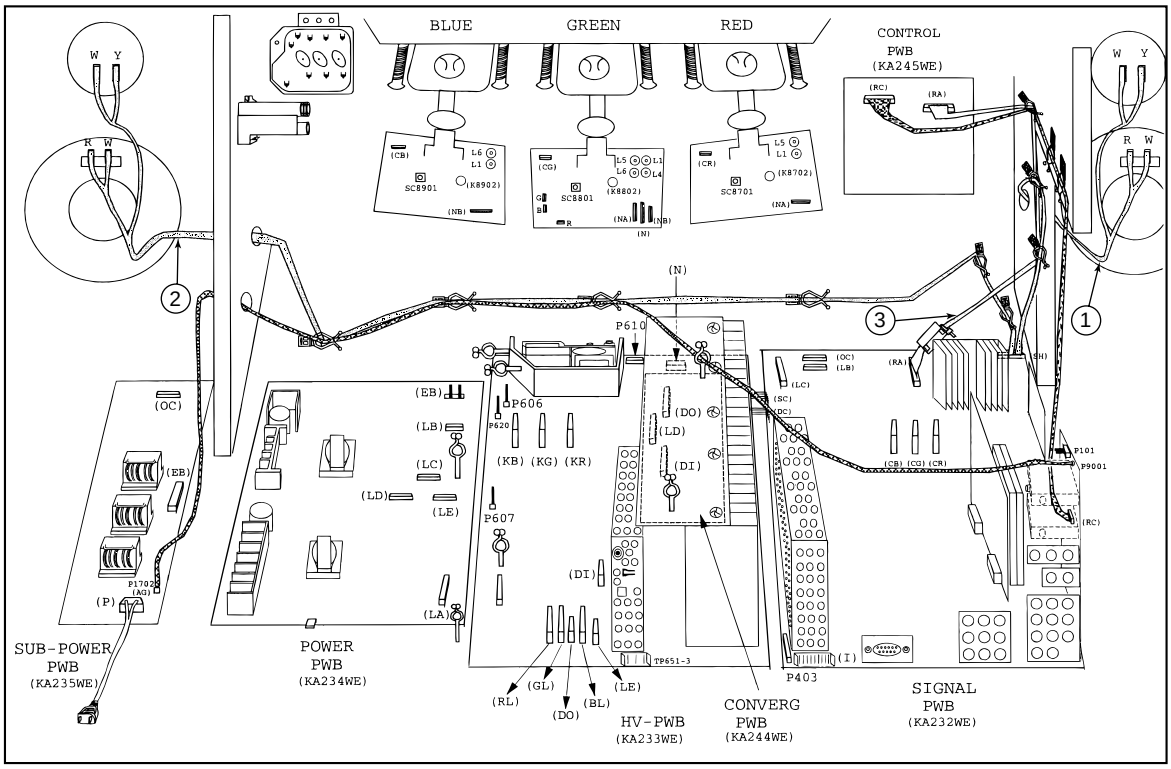
- Detach the screen and you will find the mirror secured by wooden fixtures at top and bottom as well as both sides. The top fixture alone is screwed down, whereas the other three fixtures are locked with adhesive and cannot be removed.
- The top and side fixtures have grooves in which the mirror is fitted. The bottom fixture has no groove and the mirror is placed just on it.

3-1. Remove the four screws from the top fixture and detach this fixture.

3-2. Hold both ends of the mirror and gradually lift the mirror along the grooves of the side fixtures. Once out of the grooves, pull the mirror toward yourself.

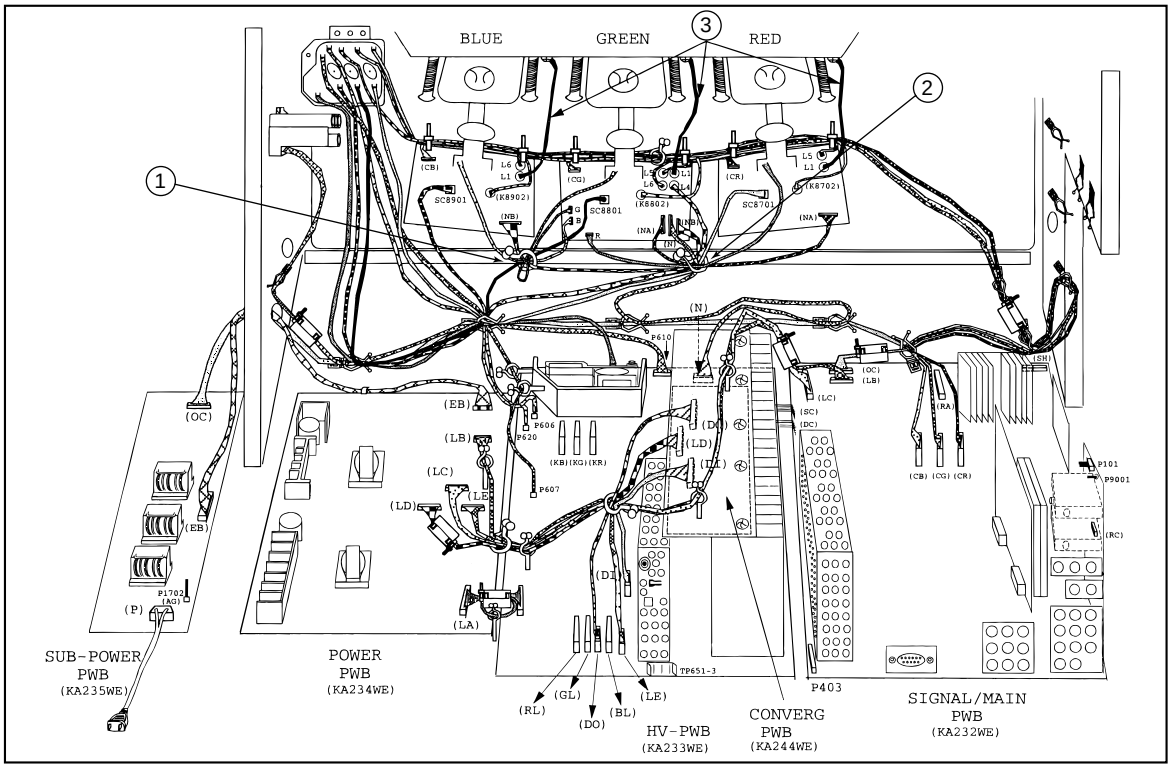


DRESSING THE LEADS



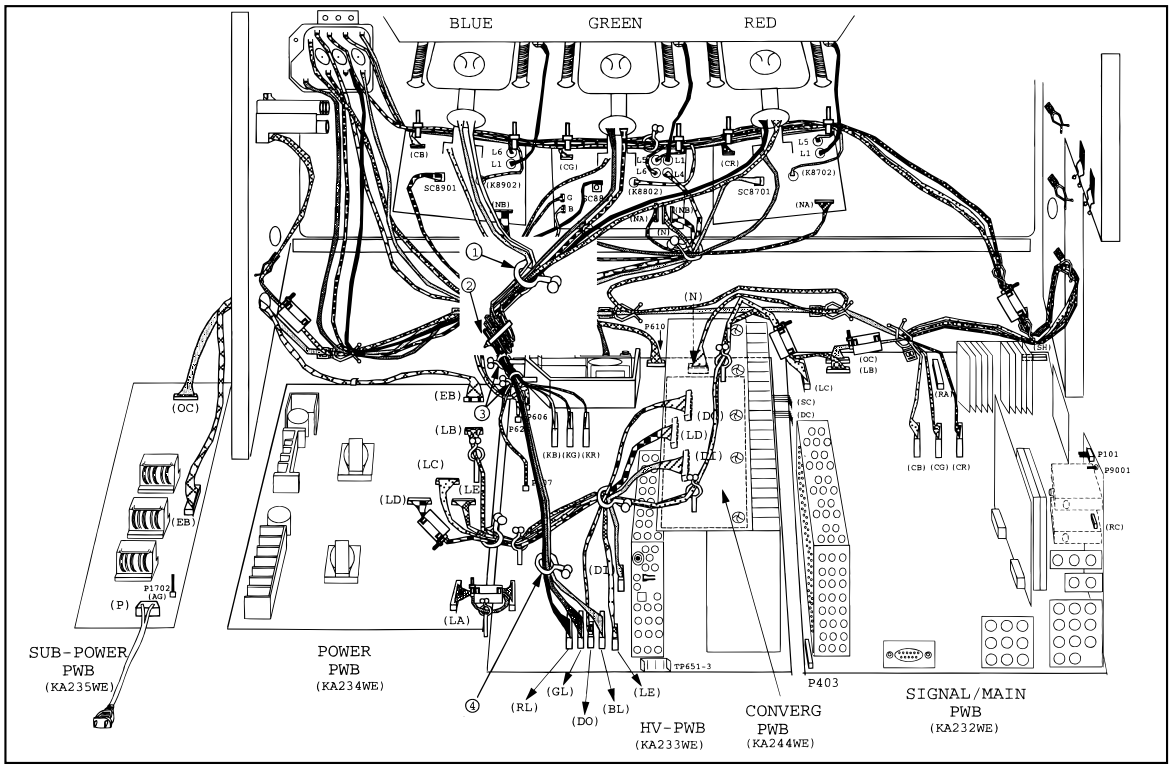
1. CONNECT‥SP tip wire (SEE NOTE 1) + side: Yellow cord – side: White cord
2. CONNECT‥SP tip wire (SEE NOTE 1) + side: Red cord – side: White cord
3. Dress RA and RC through cabinet shelf front center access hole.

NOTE1: Dress speaker wires through cabinet access holes and connect to speaker before it is assembled to the front of the cabinet.
NOTE2: Shape all wires to wire holders as shown.



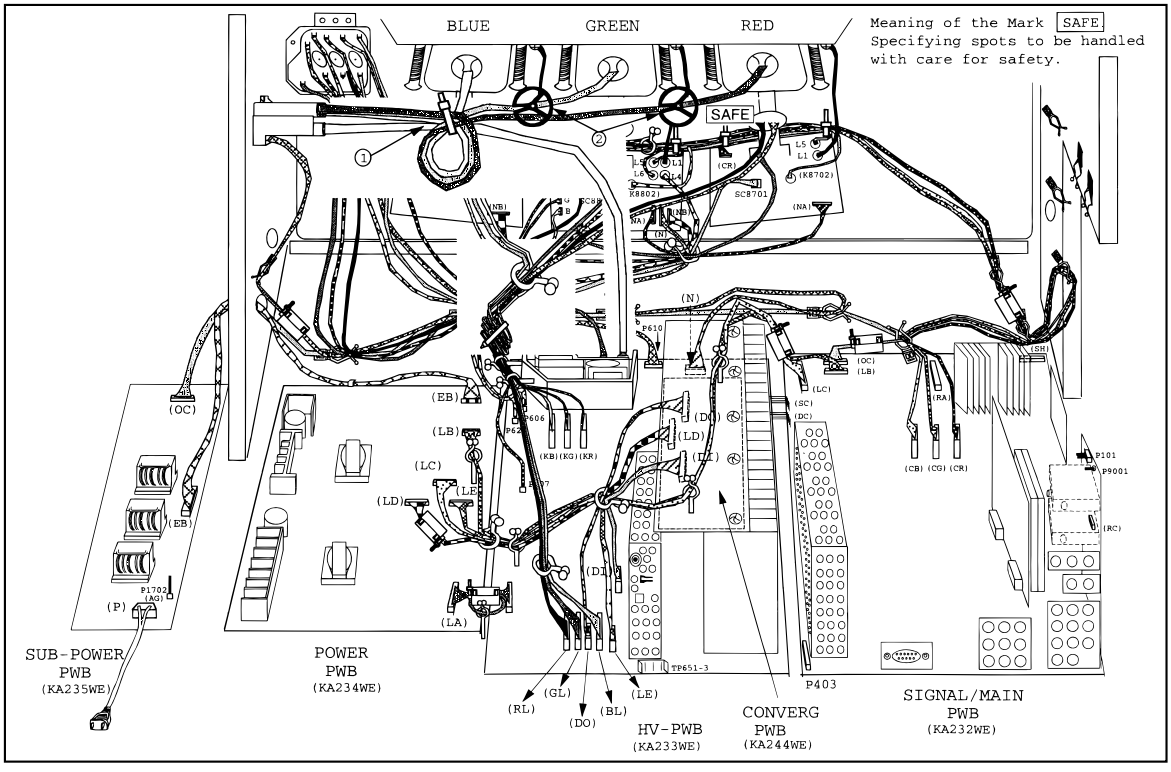
1. Bundle NB, SC8801, G and B.
2. Bundle R, NA, N, NB, L4 and SC8701.
3. Hanging Loose.

NOTE : Shape all wires into wirelocks as shown.



1, 2, 3. Bundle KR, RL, KG, GL, KB and BL.
4. Bundle RL, GL and BL.

NOTE : Shape all wires into wirelocks as shown.



1. Bundle HV, FBT, AL and R, G, B.
2. Around the anode wire must be spaced more than 10mm from the CRT & any wires. If not readjust the anode clamp position.

NOTE : Shape all wires into wirelocks as shown.

Servicing precautions

1. Protector Operation

This model is provided with five protector circuits. Below discussed are the behaviors and indications of these circuits. (**Note**: In some cases, the LED flashing cycle and possible trouble spot may be inconsistent.)

① Over-current Protector Circuit:

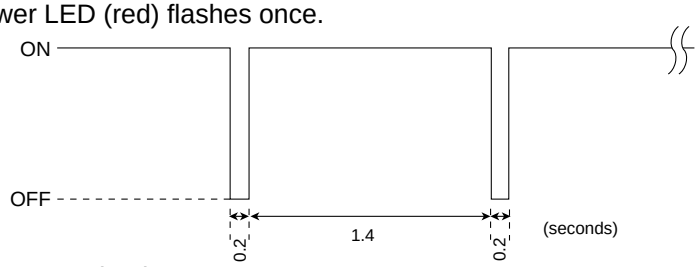
A rush current into the flyback transformer is detected. The circuit is activated if an over-current flows in.

Indication: The power LED (red) flashes once.

② X-Radiation Protector Circuit:

This circuit is activated if the rectified heater voltage rises above its specified level.

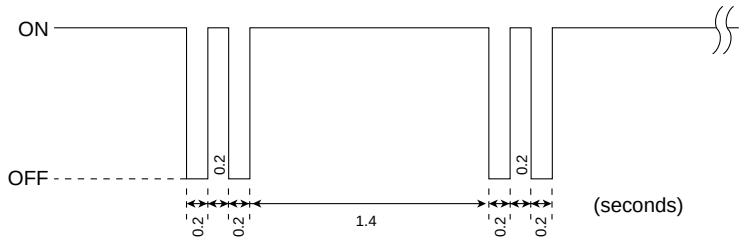
Indication: The power LED (red) flashes once.



③ Vertical Output Protector Circuit:

The vertical output is detected. The circuit is activated if the vertical output is missing (horizontal-only screen or the like).

Indication: The power LED (red) flashes twice



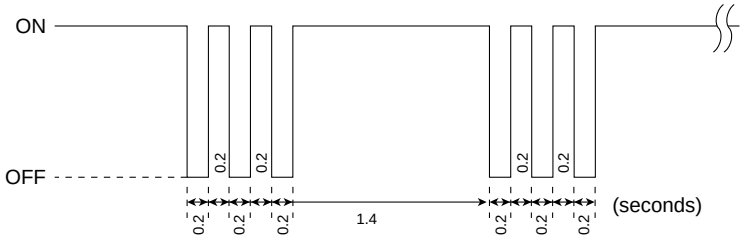
④ +B Under-voltage Protector Circuit:

The voltages at the 10V, 25V, 32V, -8V and -25V lines of the switching regulator are detected. The circuit is activated if any of the voltages drops below its specified level.

⑤ +B Over-voltage Protector Circuit:

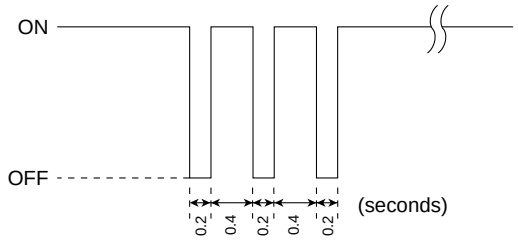
The voltages at the 10V, 25V, 32V and -25V lines are detected. The circuit is activated if any of the voltages rises above its specified level.

Indication: The power LED (red) flashes three times.



⑥ IC507 (DEF PROCESSOR) I²C Bass ERROR Protector:

If for any reason, the IC507 fails to return an ACKNOWLEDGE signal to the microprocessor.



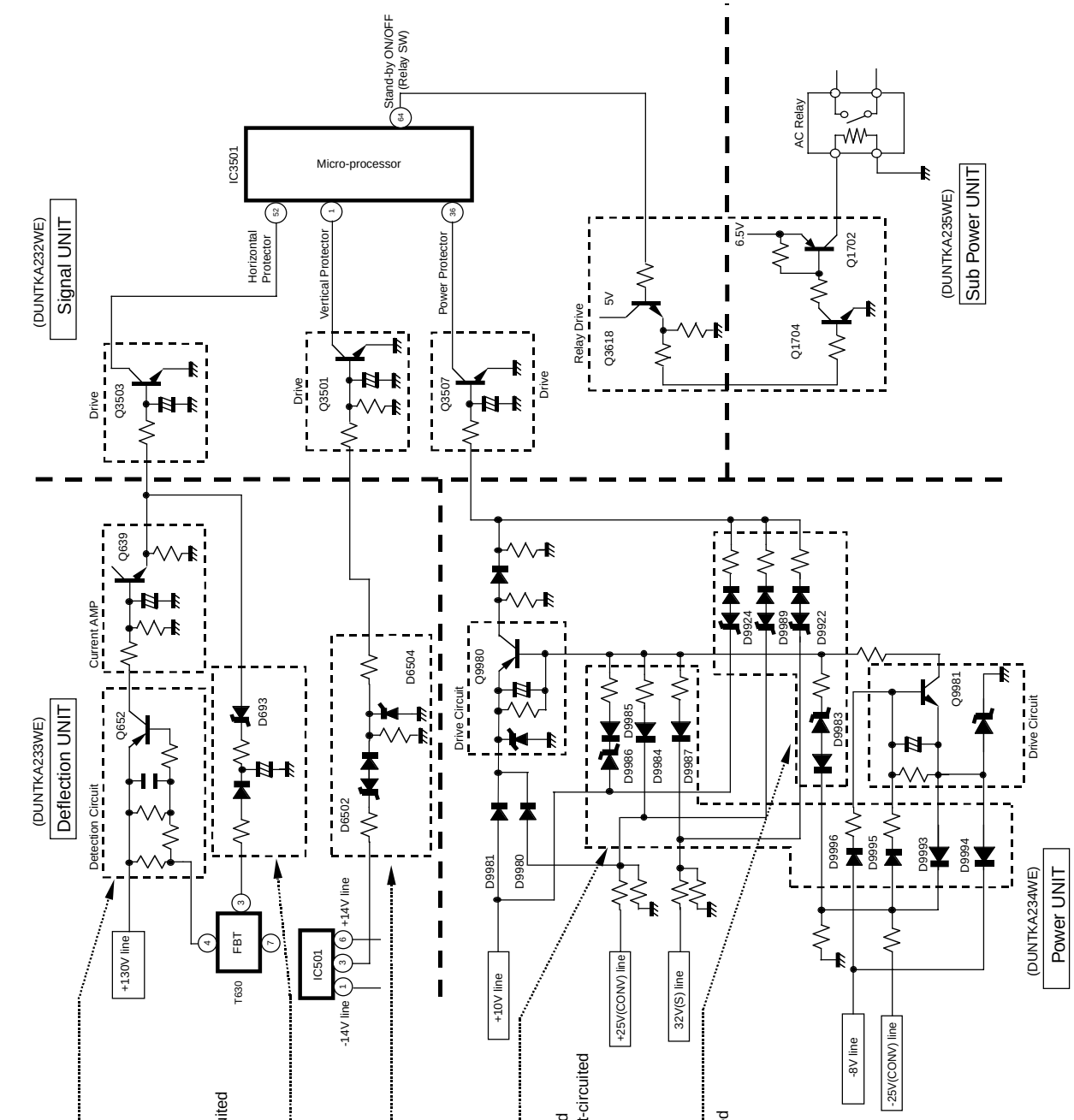
2. Stop of Protector Operation

The protector may be kept inactive by opening the detection circuits or grounding C3230 and C3231 (on the Signal Unit). The vertical output protector circuit, however, cannot be made inactive.

Note: Be sure to get the protector back to normal after servicing.

3. Self-diagnostic Function (Protector Circuit Operation)

This model is equipped with five protector circuits. Shown below are the detections of the protector circuits and possible trouble spots (outlined).



A: Detection
B: Possible Trouble Spot

① Over-Current Protector Circuit
A: +130V line current detected
(Flyback transformer rush current detected)
B: •Flyback transformer detective.
•Horizontal deflection circuit transformer or diode short-circuited
•Flyback transformer secondary-side rectifier circuit parts short-circuited or load circuit parts short-circuited

② X-Ray Rdiation Protector Circuit
A: Flyback transformer terminal ③ voltage detected
B: •Resonance capacitor open
•Horizontal circuit open

③ Vertical Output Protector Circuit
A: Vertical output (pulse) monitored and no-pulse condition detected
B: +14V line circuit in trouble, causing voltage drop (rectifier circuit parts short-circuited) or circuit open

④ Switching Power Secondary-side under-voltage protector circuit
A: •+10V, +25V, 32V, -8V and -25V line votage detected
B: •+B line rectifier circuit parts (diode, capacitor) short-circuited
•+B line load short-circuited

⑤ Switching Power Over-voltage Protector Circuit
A: •+10V, +25V, 32V and -25V line voltage rise detected
B: •Switching power primary-side circuit in trouble (causing voltage rise)
•Chopper regurator malfunctioning

ELECTRICAL ADJUSTMENT

The TV set has been factory-adjusted to optimum condition. If by any chance an adjustment point gets out of spec or readjustment is needed after component part replacement, take the following steps.

- **Instruments required for servicing**
  - STB (Set Top Box)
    Use model TU-DTV1000 that is already available on the market.
  - HD Signal Generator (SENCORE model VP-300 or equivalent)
    Used to generate 1080I, 720P, 480P crosshatch and half color bar patterns.
  - NTSC Signal Generator (480I)
    Used to generate monoscope, crosshatch and half color bar patterns.
    Leader LMS237 stereo modulator.
- **Service Mode Functions**

  The following adjustments and settings can be handled with the buttons on the R/C unit.

  ① Video Adjustments (Picture, Tint, Color, Brightness)
  (Red/Green/Blue Cut-off, Green/Blue Drive)
  ② Multi Screen Adjustments (Tint, Cont, Color)
  ③ Deflection/Position Adjustments (Vertical Linearity, Vertical Size, Vertical Position)
  (Horizontal Size, Side Pincushion, Horizontal Position, Horizontal Display Position)
  ④ Panel (Bright/Width) Adjustments

1. Service mode

Before putting unit into the service mode, check that customer adjustments are in the normal mode. Use the reset function in the video and screen adjustment menu to ensure customer controls are in their proper (reset) position.

2. Service number selection

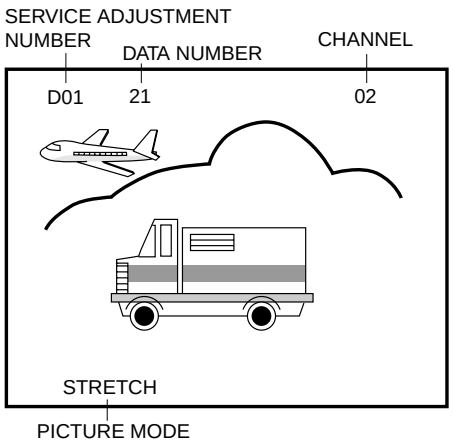
Once in the service mode, press the Ch-up or Ch-down button on the remote controller or at the set. The service adjustment number will vary in increments of one, from "D01" to "C01". Select the item you wish to adjust.

3. Data number selection

Press the Vol-up or down button to adjust the data number.

To enter the service mode and exit service mode.

While pressing the Select-down and Ch-up buttons at the sametime, plug the AC cord into a wall socket. Now the TV set is switched on and enters the service mode.
To exit the service mode, turn the television off by pressing the power button.



- **Initial factory settings**

  When the following services have been made, it is necessary to make the initial factory settings.

  1) When the IC3504 (Memory IC) has been replaced:
     This IC stores the video-and deflection-related data in memory. A replacement IC3504 does not have any data written in (Adjustment 0). It is therefore required to make the initial settings 1 and 2 on it. Take the following procedure.
     ① Initial Factory Settings 1 (Initializing the IC)
     ② Initial Factory Settings 2 (Making the software menu setting data to the factory-adjustment level)
     ③ Various Adjustments
  2) When the channel selection IC3501 (Micro-processor) has been replaced:
     ① Initial Factory Settings 2
     When the micro-processor alone has been replaced, just make this adjustment, not any other ones.
     ② Initial factory settings 1:
     Into the factory mode or service mode. Please continue pushing the bottom of initial Factory Settings 1 during 1 second.
     ③ Initial factory settings 2:
     Please continue pushing the button of initial Factory Settings 2 during 1 second.

Ajustment items

Video Adjustments (Reference only see white balance adjustment for more information)

Service mode	ITEM	DATA VARIABLE RANGE	REFERENCE DATA				
			Y, U, V	∗Y, Pb, Pr I/P DON'T THROUGH	∗Y, Pb, Pr I/P THROUGH	∗RGB I/P DON'T THROUGH	∗RGB I/P THROUGH
V02	R CUT OFF	00 ~ 255	0	0	0	0	0
V03	G CUT OFF	00 ~ 255	0	0	0	0	0
V04	B CUT OFF	00 ~ 255	0	0	0	0	0
V05	G DRIVE (TEMP H, M)	00 ~ 127	64	64	64	64	64
V06	B DRIVE (TEMP H, M)	00 ~ 127	64	64	64	64	64
V07	SUB PICTURE	0 ~ 31	18	14	24	9	23
V08	SUB TINT	00 ~ 127	14	12	8	2	8
V09	SUB COLOR	00 ~ 127	34	24	59	4	55
V10	SUB BRIGHT	00 ~ 255	85	76	79	4	81
V15	RGB PICTURE	00 ~ 127	50	←	←	←	←
V16	RGB BRIGHT	00 ~ 127	108	←	←	←	←
V27	G DRIVE (TEMP L)	00 ~ 127	64	64	64	64	64
V28	B DRIVE (TEMP L)	00 ~ 127	64	64	64	64	64

Multi Screen Adjustments

Service	ITEM	DATA VARIABLE RANGE	Initial value
V112	TINT (M)	0 ~ 127	64
V113	SUB CONTRAST (M)	0 ~ 31	16
V114	SUB COLOR (M)	0 ~ 31	11
V118	TINT (S)	0 ~ 127	64
V119	SUB CONTRAST (S)	0 ~ 31	16
V120	SUB COLOR (S)	0 ~ 31	11

Deflection/Position Adjustments

Service	ITEM	DATA VARIABLE RANGE	Initial value
C01	CONVER	0, 1	0:OFF/1:ON
V01	H POSITION	0 ~ 127	49
D01	V-LINEARITY	0 ~ 31	21
D02	PICTURE HEIGHT	0 ~ 127	32
D07	PICTURE WIDTH	0 ~ 63	30
P08	V-SIZE	0 ~ 255	with in range
P09	V-LOCATION	0 ~ 63	with in range
P10	H-SIZE	0 ~ 31	with in range
P12	H-LOCATION	0 ~ 31	with in range

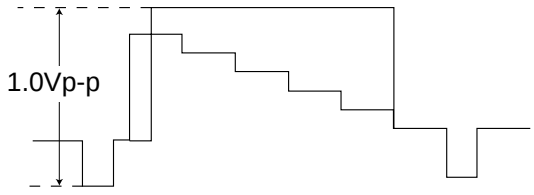
Use "C01" convergence adjustments for E-W PARABORA, TRAPEZIUM and E-W CORNER.

Panel (Bright/Width) Adjustments (See page 32 for more Information)

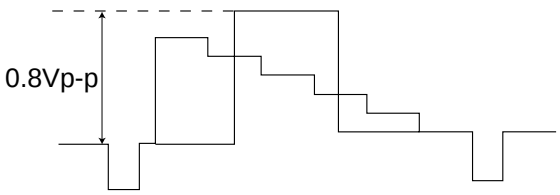
Service	ITEM	DATA VARIABLE RANGE	Initial value
p40	FRMR (R-Panel Width)	0 ~ 15	0
p41	FRML (L-Panel Width)	0 ~ 15	4
p96	SPLVY (Panel-Bright)	0 ~ 255	84

∗ When the Y, U and V settings have been modified, the Y, Pb Pr/RGB settings adjust themselves accordingly. If these video adjustment items need readjustment, feed the relevant signals and take the same adjustment procedures as for the Y, U and V settings.
(The Y, U and V settings are reference. Keep in mind that if the Y, Pb and Pr/RGB settings are readjusted first and then the Y, U and V ones readjusted, the Y, Pb and Pr/RGB data will be changed and may require readjustment.)

<Note>
When the initial factory settings 1 have been made, the initial factory settings 2 and the line adjustment data are all cleared. This would require readjustments for all the modes.
Before replacing an IC, write down the data settings in all the modes. Note, however, that the settings may be different from unit to unit. Take the above reference data as an adjustment guideline.

No.	AdjustingPoint	Adjusting Conditions	Adjusting Procedure
1	**VCO adjustment (L205 and L108 on Tuner Unit)**	Signal: Good local channel Adjusting point: L205 and L108 Specification: 2.2 ±0.1 Vp-p	1. Receive the good local channel. 2. Connect the digital voltmeter to pins (15) and (17) of TB connector to ground. 3. Select the Service mode. 4. Adjust the VCO coils (L205 and L108) to have the 2.2V level. (Main: L205, Sub: L108) 5. Quit the Service mode.
2	**RF AGC adjustment (R215 and R115 on Tuner Unit)**	Signal: Good local channel Adjusting point: R215 and R115 Specification: No noticeable noise	1. Receive the good local channel. 2. Adjust R215 and R115 to achieve optimum screen without noises and beats. (Main: R215, Sub: R115) 3. Receive other channel signals. Check the screen as mentioned in the above step 3. **Note :** When the R215 and R115 controls are set to minimum, there will be nothing seen on the screen (black raster).
3	**Detector output level adjustment (R238 and R136 on Tuner Unit)**	Signal: NTSC standard half color bar signal Adjusting point: R238 and R136 Specification: 1.0 ±0.05 Vp-p	1. Receive the NTSC standard half color bar signal. 2. Connect the oscilloscope between TP201 (TP101) on Tuner Unit and GND. (Main: TP201, Sub: TP101) 3. Using the R238 control, adjust the main IF detection output level. 4. Using the R136 control, adjust the sub IF detection output level. 

No.	Adjusting Point	Adjusting Conditions	Modulator Settings (Leader LMS237)	Adjusting Procedure
4	**Stereo separation adjustment (R329, R331, R301 and R313 on Tuner Unit)**	Adjusting point: R329, R331 Measuring terminal: (TP301) Pin (7) of IC301 Specification: 100 ±5mVrms	1. Internal modulation: 400 Hz 2. Monaural: 100% modulation	1. Connect the oscilloscope probe to (TP301) pin (7) of IC301. 2. Adjust the input level to 282mVp-p. 3. Switch the main and sub signals to adjust both R329 and R331.
		Adjusting point: R301 Measuring terminal: (TP303) Pin (22) of IC301 Specification: Minimum AC voltage	1. Internal modulation: 300 Hz 2. Stereo switch at ON, L-channel output (30% modulation) alone R-channel none 3. Stereo mode	1. Connect the oscilloscope probe to pin (22) (TP303) of IC301. 2. Adjust the separation control (R301) to get the AC voltage to minimum.
		Adjusting point: R313 Measuring terminal: (TP303) Pin (22) of IC301 Specification: Minimum AC voltage	1. Internal modulation: 3 kHz 2. Stereo switch at ON, L-channel output (30% modulation) alone R-channel none 3. Stereo mode	1. Connect the oscilloscope probe to pin (22) (TP303) of IC301. 2. Adjust the separation control (R313) to get the AC voltage to minimum.

No.	AdjustingPoint	Adjusting Conditions	Adjusting Procedure
5	**3D Y/C separation level adjustment (R7000: Y/C3D Unit)**	Signal: NTSC standard half color bar signal Adjusting point: (R7000: Y/C 3D Unit) Specification: 0.8 ±0.05 Vp-p	1. Receive the NTSC standard half color bar signal. 2. Connect the oscilloscope probe between pin (8) of P7001 and GND. 3. Adjust R7000 so that the waveform amplitude of the luminance signal at pin (10) of JA connector on VCJ unit should be 0.8±0.05 Vp-p. **Note:** The amplitude must be measured from the black level to the white peak. 
6	**Main Y signal level adjustment (R/C, Service mode V113)**	Signal: NTSC standard half color bar signal Adjusting point: Remote Control (Service mode V113) Specification: 0.5 ±0.05 Vp-p	1. Connect the oscilloscope probe between TP1801 and GND. 2. In the twin-picture mode, receive the NTSC standard half color bar signal for the left-side screen (Main Screen). 3. Using the VOLUME UP/DOWN keys in the Service mode V113, adjust the waveform amplitude of the main luminance signal at TP1801 to 0.5±0.05 Vp-p. **Note:** The amplitude must be measured from the black level to the white peak.
7	**Main-screen tint adjustment (R/C, Service mode V112)**	Signal: NTSC standard half color bar signal Adjusting point: Remote Control (Service mode V112)	1. Set the AV mode to "STD-1". 2. In the twin-picture mode, receive the good local channel for the left-side screen (Main screen). 3. Enter the Service mode V112. Using the VOLUME UP/DOWN keys, visually adjust the tint to the best.
8	**Main-screen color adjustment (R/C, Service mode V114)**	Signal: NTSC standard half color bar signal Adjusting point: Remote Control (Service mode V114) Specification: Normal color level TP1801 0.7 ±0.05Vp-p	1. Take the same steps 1. and 2. for the tint adjustment. 2. Enter the Service mode V114. Using the VOLUME UP/DOWN keys, visually adjust the color to the best. 3. Switch the channels. Make sure the color is optimum on other channels.

No.	AdjustingPoint	Adjusting Conditions	Adjusting Procedure
9	**Brightness adjustment (R/C, Service mode V10)**	Signal: Good local channel Adjusting point: Remote Control (Service mode V10) Specification: Normal brightness level	1. Make this adjustment after the deflection, white balance, normal mask, purity, convergence and focus have all been completely adjusted. 2. Set to the video standard condition. (Picture at MAX, brightness and sharpness at CENTER) 3. Set the VIEW MODE to STRETCH. 4. Receive the good local channel. 5. Enter the Service mode V10. Adjust the brightness to the best point. 6. Switch to the 1080I mode. Make the same adjustment. **Caution:** Avoid CRT damage by too high bright settings.
10	**Picture adjustment (R/C, Service mode V07)**	Signal: Good local channel Adjusting point: Remote Control (Service mode V07) Specification: Normal contrast range	1. Make this adjustment after the Y signal level has been completely adjusted. 2. Take the same steps 1., 2., 3. and 4. for the brightness adjustment. 3. Enter the Service mode V07. Adjust the picture to the best point. **Caution:** Avoid CRT damage and picture blooming by too high settings.
11	**Sub-screen Picture adjustment (R/C, Service mode V119)**	Signal: NTSC standard half color bar signal Adjusting point: Remote Control (Service mode V119) Measuring point: TP1802 Specification: 0.5±0.05 Vp-p	1. In the twin-picture mode. Receive the NTSC standard half color bar signal for the right-side screen. 2. Connect the oscilloscope to TP1802. Enter the Service mode V119. Using the VOLUME UP/DOWN keys, adjust the amplitude between the black level and white peak to 0.5±0.05 Vp-p.
12	**Sub-screen tint adjustment (R/C, Service mode V118)**	Signal: NTSC standard half color bar signal Adjusting point: Remote Control (Service mode V118) Specification: Normal flesh tone TP1801	1. In the twin-picture mode, receive the good local channel for the right-side screen (sub-screen). 2. Enter the Service mode V118. Using the VOLUME UP/DOWN keys, visually adjust the tint on the right-side screen to that on the left-side screen. 3. Switch the channels for the right-side screen. Make sure the tint is optimum on other channels.
13	**Sub-screen color adjustment (R/C, Service mode V120)**	Signal: NTSC standard half color bar signal Adjusting point: Remote Control (Service mode V120) Specification: Normal color level TP1801 0.7 ±0.05Vp-p	1. In the twin-picture mode, receive the good local channel for the right-side screen (sub-screen). 2. Enter the Service mode V120. Using the VOLUME UP/DOWN keys, visually adjust the color on the right-side screen to that on the left-side screen. 3. Switch the channels for the right-side screen. Make sure the color is optimum on other channels.

<table>
<tr><th>No.</th><th>AdjustingPoint</th><th>Adjusting Procedure</th></tr>
<tr><td>14</td><td>White balance adjust-ment</td><td>(1) Receive the monoscope pattern signal. Set the AV mode to "STD" and the quality-picture mode to "480P".
(2) Using the RGB Screen control, roughly adjust the cut-off level.
(3) Service mode numbers with the R/C unit keys, referring to the table below.
(4) Turn down the screen control to cut off the raster.
(5) Using the R/C unit keys, enter the Service mode numbers listed below. Adjust the drive so that the raster becomes whitish.
(6) Lower the brightness and the picture level. Check the white balance on the dark screen. If out of spec, readjust the cut-off directly.
(7) Repeat the above steps (5) and (6) to have the white balance good on the bright screen.
(8) Now adjust the brightness as well.
(9) Set the quality-picture mode to "1080I", and take the above steps (5) thru (8) again.

<table>
<tr><th>ADDRESS</th><th>ADJUSTMENT ITEM</th><th>INITIAL VALUE</th></tr>
<tr><td>V02</td><td>Red cut-off</td><td>0</td></tr>
<tr><td>V03</td><td>Green cut-off</td><td>0</td></tr>
<tr><td>V04</td><td>Blue cut-off</td><td>0</td></tr>
<tr><td>Variable range</td><td colspan="2">64~255</td></tr>
</table>
<table>
<tr><th>ADDRESS</th><th>ADJUSTMENT ITEM</th><th>INITIAL VALUE</th></tr>
<tr><td>V05</td><td>Green drive</td><td>64</td></tr>
<tr><td>V06</td><td>Blue drive</td><td>64</td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td>Variable range</td><td colspan="2">10~64~117</td></tr>
</table>
</td></tr>
</table>

No.	Adjusting Procedure

14

Bus Data	Function	Input	View Mode	DDFC	Note
V02	Red Cut Off	Antenna/Video	Stretch	thru	base
		Component	Stretch	not thru if 1080I	base offset
		Component	Zoom	thru	base offset
		RGB {HD}	Stretch	not thru if 1080I	base offset
		RGB {HD}	Zoom	thru	base offset
V03	Green Cut Off	Antenna/Video	Stretch	thru	base
		Component	Stretch	not thru if 1080I	base offset
		Component	Zoom	thru	base offset
		RGB {HD}	Stretch	not thru if 1080I	base offset
		RGB {HD}	Zoom	thru	base offset
V04	Blue Cut Off	Antenna/Video	Stretch	thru	base
		Component	Stretch	not thru if 1080I	base offset
		Component	Zoom	thru	base offset
		RGB {HD}	Stretch	not thru if 1080I	base offset
		RGB {HD}	Zoom	thru	base offset
V05	Green Drive (MID HIGH)	Antenna/Video	Stretch	thru	base
		Component	Stretch	not thru if 1080I	base offset
		Component	Zoom	thru	base offset
		RGB {HD}	Stretch	not thru if 1080I	base offset
		RGB {HD}	Zoom	thru	base offset
V06	Blue Drive (MID HIGH)	Antenna/Video	Stretch	thru	base
		Component	Stretch	not thru if 1080I	base offset
		Component	Zoom	thru	base offset
		RGB {HD}	Stretch	not thru if 1080I	base offset
		RGB {HD}	Zoom	thru	base offset
V07	Sub-Picture (Contrast)	Antenna/Video	Stretch	thru	base
		Component	Stretch	not thru if 1080I	base offset
		Component	Zoom	thru	base offset
		RGB {HD}	Stretch	not thru if 1080I	base offset
		RGB {HD}	Zoom	thru	base offset
V10	Sub-Bright (Black Level)	Antenna/Video	Stretch	thru	base
		Component	Stretch	not thru if 1080I	base offset
		Component	Zoom	thru	base offset
		RGB {HD}	Stretch	not thru if 1080I	base offset
		RGB {HD}	Zoom	thru	base offset
V15	RGB PICTURE	RGB {HD}	Stretch	–	User Data offset
V16	RGB BRIGHT	RGB {HD}	Stretch	–	User Data offset
V27	Green Drive (LOW)	Antenna/Video	Stretch	thru	base
		Component	Stretch	not thru if 1080I	base offset
		Component	Zoom	thru	base offset
		RGB {HD}	Stretch	not thru if 1080I	base offset
		RGB {HD}	Zoom	thru	base offset
V28	Green Drive (LOW)	Antenna/Video	Stretch	thru	base
		Component	Stretch	not thru if 1080I	base offset
		Component	Zoom	thru	base offset
		RGB {HD}	Stretch	not thru if 1080I	base offset
		RGB {HD}	Zoom	thru	base offset

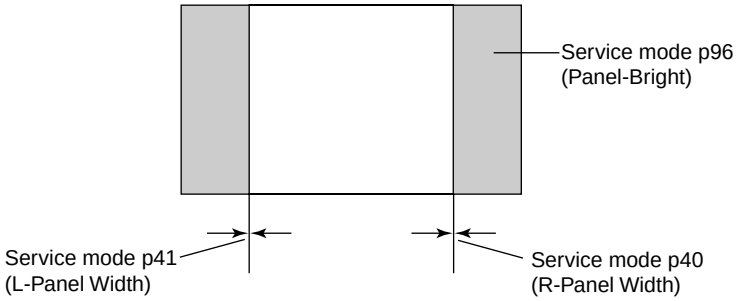
No.	Adjusting Procedure

14

Cautions:	
•) The affected bus data are interdependent upon input signal source and view mode. Confirm input source and view mode before adjusting WB.	
•) NTSC format is base setting therefore complete all Antenna/Video WB adjustments first.	
•) **DO NOT GO BACK AND CHANGE NTSC WB ADJUSTMENTS.** Whenever NTSC's WB is changed all other WB settings are affected and they must be readjusted.	
•) WB adjustments are only done for User Control Color Temperature of "MID HIGH" and "LOW". The other User Control settings {"HIGH" and "MID-LOW"} are pre-programmed offsets of these adjustments.	
General Procedure	
1) Set Video Input or Antenna to NTSC signal source and view mode stretch. Repeat Steps A & B.	thru DDFC
2) Set Component to a 1080I signal source and view mode stretch. Repeat Steps A & B. (input 4 or 5)	not thru DDFC
3) Set Component to any valid format signal source and view mode zoom. Repeat Steps A & B. (input 4 or 5)	thru DDFC
4) Set RGB to any valid format signal source and view mode zoom. Repeat Steps A & B.	thru DDFC
5) Set RGB to a 1080I signal source and view mode stretch. Repeat Steps A & B but must substitute bus data V15 & V16 for bus data V07 & V10, respectively.	not thru DDFC
Individual Steps	
A) Set User control color temperature to "MID-HIGH". Adjust the color temperature, brightness & picture using bus data V02 ~ V06, V07, & V10.	Recommended values: 9200°K (x=0.285, y=0.285)
B) Set User control color temperature to "LOW". Adjust the color temperature using bus data V27 & V28. Do not readjust V02 ~ V06.	Recommended values: 6500°K (x=0.315, y=0.320)

Panel Adjustment Mode

Mode for adjusting the brightness, width, and position of the gray part (panel) of the 4:3 normal screen.



Note: Set view mode to "Side bar".

Geometry Specifications

480I(NTSC) – Antenna, Input 3 (Composite)

	Item	STRETCH	SIDE BAR	S.STRETCH	CINEMA
Specification	Vertical Size	(92)	(92)	(85)	(71)
	Overscan	8%	8%	15%	29.6%
	Horizontal Size	(92)	(92)	(92)	(92)
	Overscan	8%	8%	8%	8%

480P – Input 3 (RGB), 4 (Y, Pb, Pr), 5 (Y, Pb, Pr)

	Item	STRETCH	SIDE BAR	S.STRETCH	CINEMA
Specification	Vertical Size	(92)	(92)	(85)	(71)
	Overscan	8%	8%	15%	29.6%
	Horizontal Size	(92)	(92)	(92)	(92)
	Overscan	8%	8%	8%	8%

720P – Input 3 (RGB), 4 (Y, Pb, Pr), 5 (Y, Pb, Pr)

	Item	STRETCH	ZOOM: DDFC vN2	ZOOM: DDFC vN3
Specification	Vertical Size	(88)	(88)	(88)
	Overscan	12%	12%	12%
	Horizontal Size	(88)	(88)	(70)
	Overscan	12%	12%	30%

1080I – Input 3 (RGB), 4 (Y, Pb, Pr), 5 (Y, Pb, Pr)

		Base Geometry Green Raster Convergence (Input 5 only)		
	Item	STRETCH	ZOOM: DDFC vN2	ZOOM: DDFC vN3
Specification	Vertical Size	(88)	(88)	(88)
	Overscan	12%	12%	12%
	Horizontal Size	(88)	(88)	(70)
	Overscan	12%	12%	30%

NOTE:
DDFC (I/P Unit) version N2 : RUNTK0687CEN2 on Signal Board (DUNTKA232)
DDFC (I/P Unit) version N3 : RUNTK0687CEN3 on Signal Board (DUNTKA232)

Geometry Adjustments and Sequence

(1) Base Geometry Green Raster: Raster inclination, position, vertical size, and horizontal size must completed first. This requires using input 5 with a Monoscope or Crosshatch pattern of 1080I format and with View Mode set to "Stretch". Adjustments are done using the deflection yoke centering magnets and the Service modes D01, D02, D07 with the DI wire unplugged on Deflection Board (DUNTKA233).

Service	Item	Data	Comments
D01	V-LINEARITY	0~31	See illus. for Raster vertical size
D02	PICTURE HEIGHT	0~127	See illus. for Raster vertical size
D07	PICTURE WIDTH	0~63	See illus. for Raster horizontal size

(2) Base Geometry Green Raster Convergence and Red, Blue Convergence adjustments must be completed with the DI wire plugged in on Deflection Board (DUNTKA233). Refer to the Convergence adjustment procedures. Note that final Raster size, shape and linearity is done point-by-point using the Convergence point adjustment procedures.

(3) Before adjusting the DDFC Geometry settings, supply the correct input signal format with a Monoscope or Crosshatch pattern and with View Mode set as shown in the Geometry Specifications. Adjustments are done using the Service modes P08~P12 and the DI wire plugged in on Deflection Board (DUNTKA233).

Service	Item	Data
P08	V-SIZE	0~255
P09	V-LOCATION	0~63
P10	H-SIZE	0~31
P12	H-LOCATION	0~31

Format: 480I(NTSC) Format: 480P View Modes Available
SIDE BAR
S.STRETCH
CINEMA
STRETCH

Format: 720P Format: 1080I View Modes Available
STRETCH
ZOOM

SERVICE ADJUSTMENT

1. Raster inclination adjustment (Deflection yoke)

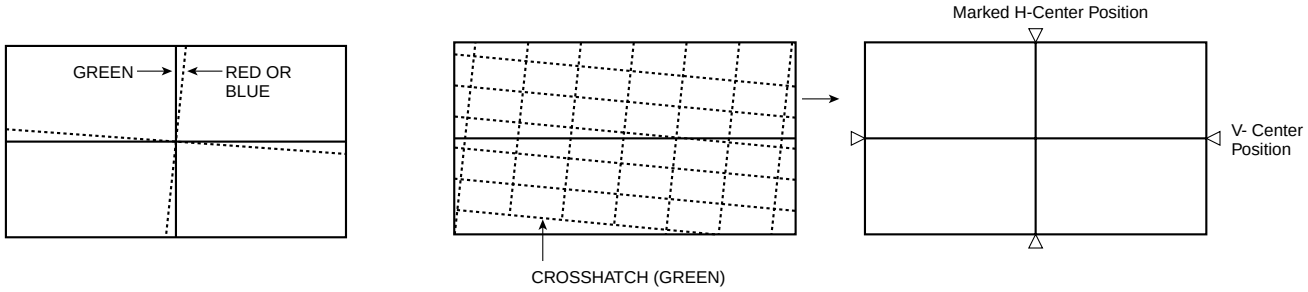
Base raster adjustment

Adjustment preparation

(1) The set can face east or west.
(2) Input the single cross test signal (1080I component video, TV in stretch mode).
(3) Set video conditions to standard mode (STD).
(4) The lens focus adjustment should have been completed.
(5) The electric focus should have been coarse adjusted.
(6) Unplug wire "DI" from the H.V.unit.
(7) Start adjustment 20 minutes or more after TV is turned on.

Adjustment procedure

(1) Apply covers to the R and B lenses and project only green light.
(2) Turn the G deflection yoke and adjust the vertical raster inclination.
(3) Then, remove the cover of R or B lens and project red or blue light and green light together on the screen.
(4) Turn the deflection yoke of R or B and set so that the inclination of R or B with respect to the green light is as shown below on the top and bottom sides.
(5) After raster inclination adjustment, fixing screw of DY should be screwed with 12±2 kg·cm torque.



2. Raster position adjustment (Centering magnets)

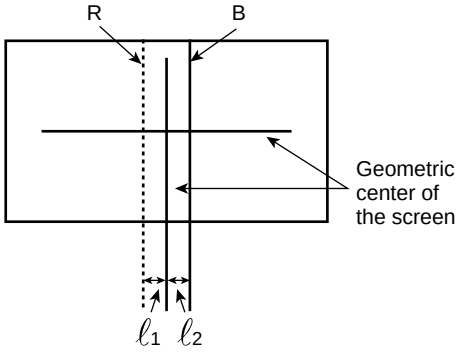
Adjustment preparation

(1) The set can face east or west.
(2) Input the single cross test signal.
(3) Set video conditions to standard mode.
(4) The lens focus adjustment should have been completed.
(5) The electric focus should have been coarse adjusted.
(6) Unplug wire "DI" from the H.V.unit.
(7) Start adjustment 20 minutes or more after TV is turned on.

Adjustment procedure

(1) Turn the centering magnets for red, green, and blue to satisfy the condition below. The red and blue horizontal lines should match with green.

Size	Vert. Line	Side of Green
61"	Red ℓ_1	19 left
61"	Blue ℓ_2	21 right
55"	Red ℓ_1	21 left
55"	Blue ℓ_2	23 right



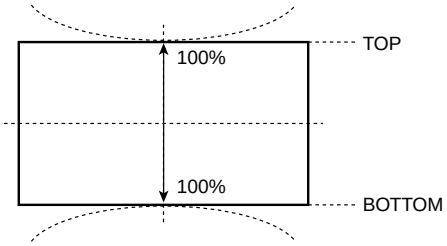
3. Vertical size adjustment (D02)

Adjustment preparation

(1) The set can face east or west.
(2) Input the single cross test signal.
(3) Set service mode to D02 position.
(4) The lens focus adjustment should have been completed.
(5) The electric focus should have been coarse adjusted.
(6) Set the digital convergence to MUTE ON (Uncorrected state). With AC power off disconnect wire "DI" from the PWB.
(7) Start adjustment 20 minutes or more after TV is turned on.

Adjustment procedure

(1) Turn only the green by applying covers to the red and blue lens.
(2) Change the number of D02 so that vertical scan size is as shown bellow on the top and bottom sides.



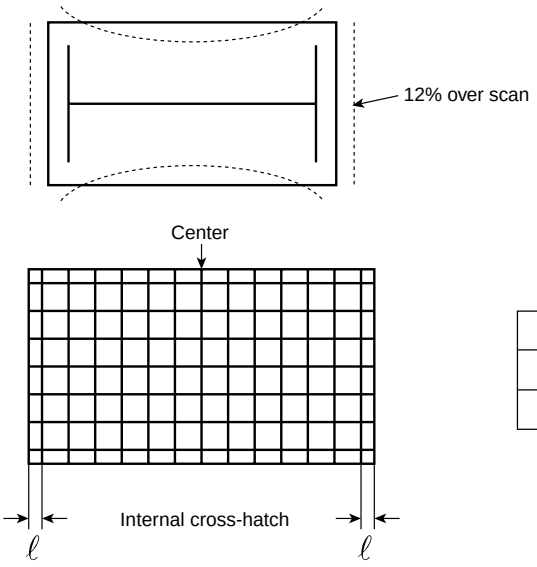
4. Horizontal size adjustment (D07)

Adjustment preparation

(1) The set can face east or west.
(2) Input the single cross test signal.
(3) Set service mode to D07 position.
(4) The lens focus adjustment should have been cpmpleted.
(5) The electric focus should have been coarse adjusted.
(6) Set the digital convergence to MUTE ON (Uncorrected state). With AC power off disconnect wire "DI" from the PWB.
(7) Start adjustment 20 minutes or more after TV is turned on.

Adjustment procedure

(1) Project only green, the same as 3..
(2) Change the number of D07 so that horizontal scan size is as shown bellow on the left and right sides.



Size	ℓ
61"	40 ± 5mm
55"	36 ± 5mm

Notes: (1) Internal cross-hatch should be used for measurement of horizontal size after the adjustment of changing D07.
(2) Reconnect any disconnected internal wires.

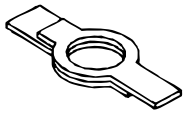
5. Beam alignment

Adjustment preparation

(1) Adjust at least 30 minutes after turning on power switch.
(2) Demagnetize the CRT mounting bracket.
(3) Raster inclination, centering, horizontal and vertical amplitudes and optical focus adjustment should be completed.
(4) Set video conditions to standard mode.
(5) Receive cross-hatch signals. (Use of internal cross-hatch signals allowed.)

Adjustment procedure

(1) Green (G) tube beam alignment adjustment. Apply covers to the R and B lenses and project only green light.
(2) Put Green (G) tube beam alignment magnet to the cancel state as shown below.



(3) Turn the Green (G) static focus (Focus Pack) counterclockwise all the way and make sure of position of cross-hatch center on screen. (Halo state.)
(4) Turn Green (G) static focus (Focus Pack) clockwise all the way. (Blooming state.)
(5) Turn two magnets forming alignment magnet in any desired direction and move cross-hatch center to position found in (3).
(6) If image position does not shift when Green (G) static focus (Focus Pack) is turned, Green (G) beam alignment has been completed.
(7) If image position shifts when Green (G) statis focus (Focus Pack) is turned, repeat (2)-(6).
(8) Conduct beam alignment for Red (R) focus, Blue (B) focus.
(9) Upon completion of adjustment, fix beam alignment magnets with white paint.

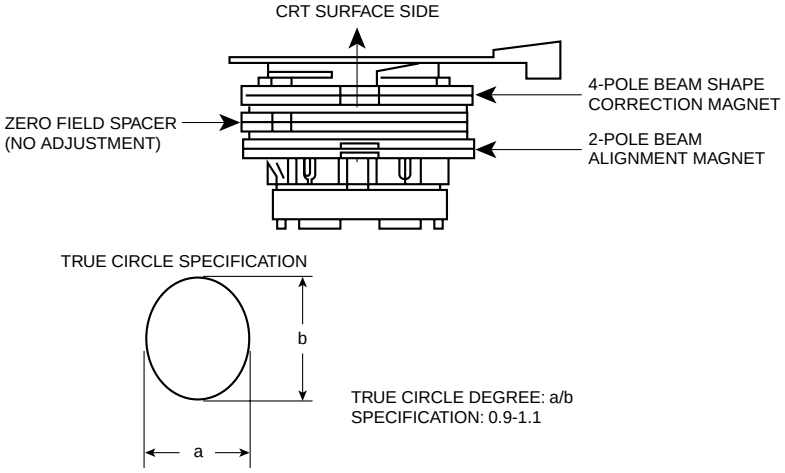
6. Beam shape adjustment

Adjustment preparation

(1) The beam alignment should have been completed.
(2) The raster inclination, centering, horizontal/vertical amplitude and optical focus adjustments should have been completed.
(3) Set video conditions to factory reset.
(4) Input the dot signal.

Adjustment procedure

(1) Green CRT beam shape adjustment. Apply covers to the R and B lenses and project only green light.
(2) Turn the green static focus fully clockwise. (Blooming.)
(3) Make the dot at the screen center a true circle using the 4-pole magnet as shown below.
(4) Also adjust the Red and Blue CRT beam shapes according to the steps (1) to (3).
(5) After the adjustment is completed, return R, G and B static VRs to the Just focus point.



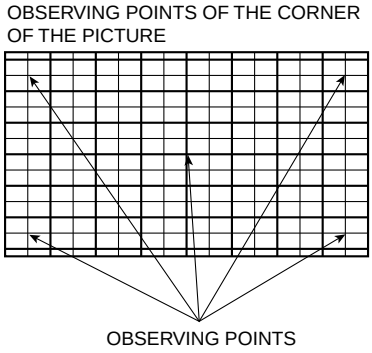
7. Static focus adjustment

Adjustment preparation

(1) The raster inclination, centering, horizontal/vertical amplitude and optical/electrical focus beam alignment should have been adjusted.
(2) Set video conditions to standard mode.
(3) Receive the cross-hatch pattern signal.
(4) Apply covers to the lenses of colors other than the color to be adjusted and project a single color.

Adjustment procedure

(1) Red (R), Green (G) and Blue (B) static focus adjustment.Vary the static focus VR (focus pack) and make the center of the cross-hatch pattern clearest.
(2) Observe the corners of the picture and check that the focus does not get conspicuously worse. Re-Adjust for good corner focus as required.



8. Phase adjustment (service mode C01)

Perform only if conv. module is replaced or data shown is not correct values.

Adjustment preparation

(1) PHASE adjustment — This is to match the digital convergence cursor position to the video image displayed, and to match the digital convergence cursor position (dotted lines) to digital convergence data position (bent lines) apply signal.

Data adjustment procedure

Enter service mode "C01"="1"

(1) Press the A button on the remote to select phase adjustment. (Only Green displayed)
(2) Press display key.
(3) Use remote control keys to change phase mode data.
(4) Press A (phase adj.), and use 2,4,5 and 6 to set data.
(5) Press display key.
(6) Press A to exit PHASE mode.
(7) Press D key 2 times.
(8) Press "MUTE" key on remote control unit.
(9) Press "TWIN PICTURE Input" key and hold.
(10) Exit the service mode.

PH-H	BF	Keys ④ + ⑥
PH-V	03	Keys ② + ⑤
CR-H	46	◁ or ▷ Left or Right
CR-V	0C	△ or ▽ Up or Down

Note: The phase adjustment are set up to above list at factory.
Press Display button, then above list is displayed, and verify the number to be in the list without replacement of convergence unit. It will be not necessarily to change the phase number as adjustment procedure.

9. Raster position adjustment (static convergence)

Adjustment preparation

(1) Position adjustment — This will move an entire color.
Use this adjustment to match colors at the center of the screen. (Active video center from external signal and physical screen center should now match from phase adj. 8.)

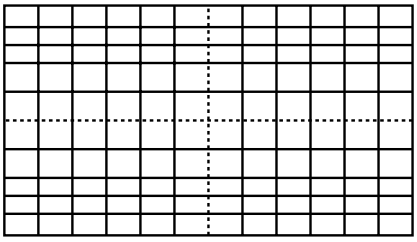
(2) Use the buttons below to switch color to adjust.
"100" - Green (Set green first then move red and blue to match green.)
"O" - Red
"FLASHBACK" - Blue

Adjustment procedure

(1) Press the B button. Extra horizontal lines appear to confirm position mode.
(2) Use the cursor buttons to adjust position.
(3) Press B again to exit raster position mode.

Notes: (1) Other functions cannot be accessed when in raster position adjustment mode. Press B and confirm extra horizontal lines disappear to exit raster position mode.
(2) Press ENTER to switch between all colors displayed or adjustment color and Green only.

Raster Pposition adjustment
cross-hatch (B button)



10. Convergence point adjustment (dynamic convergence)

Adjustment preparation

(1) Select color to adjust.
"100" - Green
"O" - Red
"FLASHBACK" - Blue

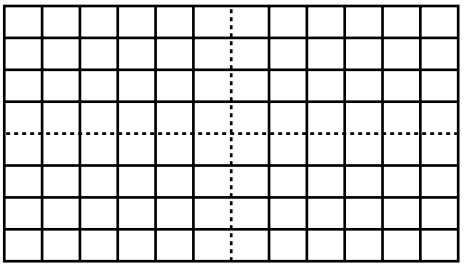
(2) Use 4,6,2 and 5 to move the cursor position (dotted lines).

(3) Use cursor buttons to move the convergence point.

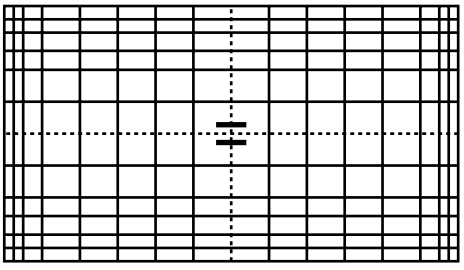
(4) Three adjustment modes are available:
1. (3x3) Press "100" 5 times
2. (7x5) Press "O" 5 times
3. (13x9) Press "FLASHBACK" 5 times

For touch-up, only the (13x9) mode is necessary. This will adjust every cross-hatch intersection point on the screen.
For complete adjustment, start with (3x3) mode. This will adjust center point and eight edge points only, but will greatly reduce adjustment time. Then use (7x5) mode, and finally (13x9) mode to finish convergence.
If "S" distortion appears between cross-hatch lines repeat (7x5) mode to change calculation process while adjusting to remove distortion, then return to (13x9) mode to finish touch-up convergence.

Convergence point adjustment
cross-hatch



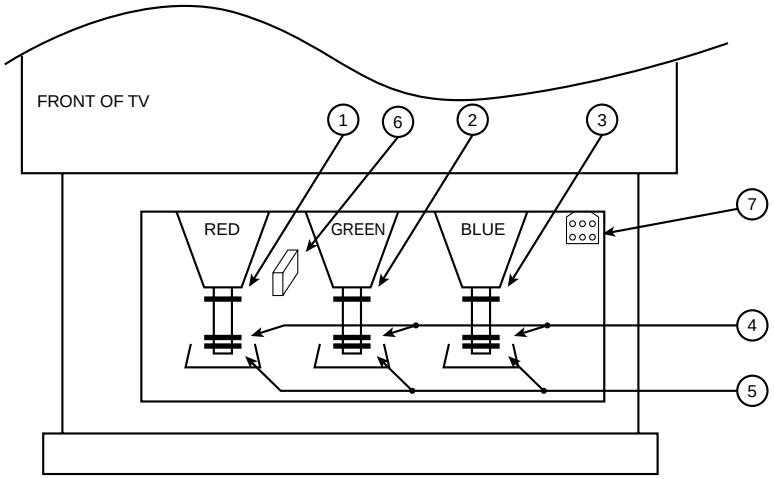
Cross-hatch hight resolution (MENU button)



Adjustment procedure
(1) Start adjustment at the center of the screen.
(2) Continue adjustment at next closest position.
(3) Adjust center area first, and ending with edge sections.
(4) Press the INPUT button to perform interpolation operation.
This process will take about 1 second and no picture will be seen at this time.
(5) After interpolation, check convergence again and repeat (1)-(5) if necessary.
(6) When convergence is acceptable, press D to write data to ROM memory. ROM WRITE? is displayed to alarm system that ROM will be overwritten with new data. Press the D button again to write displayed data to ROM.
(7) DATA WRITE TO ROM will take approximately 4 seconds and no picture will be displayed.
(8) Green dots will be displayed when operation is complete.
(9) Press MUTE or any button (A,B,D MENU INPUT and AV Mode) to return to convergence pattern, then confirm again convergence is acceptable.
(10) Press INPUT for 3 seconds more, convergence adjustment mode will be returned to C01 of service mode.

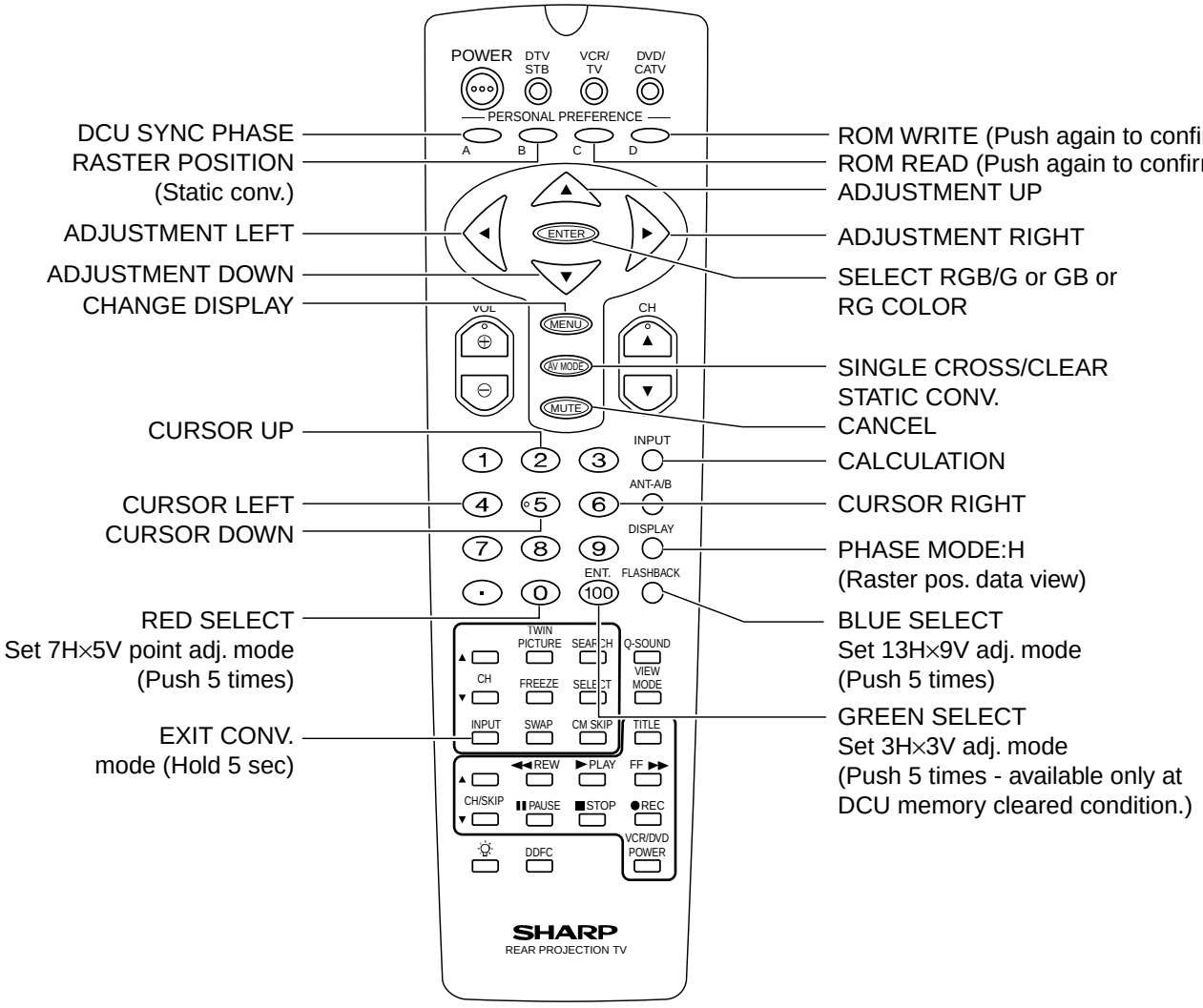
Notes: (1) Display only green for easier adjustment and match to jig screen. Press "ENTER", THEN PRESS 100/ ENT. (Use green to set raster position and correct for distortions.)
(2) Perform interpolation and data write to ROM after green adjustment. Once green has been confirmed to match jig screen, the jig screen can be removed. Do not readjust the green color after jig screen has been removed. This is now your reference color.
(3) Display green and red only and match red to green.
(4) Display all colors and match blue to green and red.
Touch-up red color if necessary.
(5) Existing DATA in ROM can be read by pressing the C button 2 times. This data can be used after replacing a component (CRT, DY, etc.) Where complete convergence adjustment is not necessary be careful not to overwrite this data.
DO NOT write cleared RAM data into ROM or a complete convergence adjustment will be necessary. Remember to try with Existing data before starting convergence adjustment to minimize adjustment time.
(6) Access for (3x3) mode. With the TV set off (AC Line off) Short circuit the located S6501 using a wire, and then press the power button (AC line on before press). This operation will clear.
Note : All stored convergence data settings.

ADJUSTMENT POINT
CRT, cabinet locations

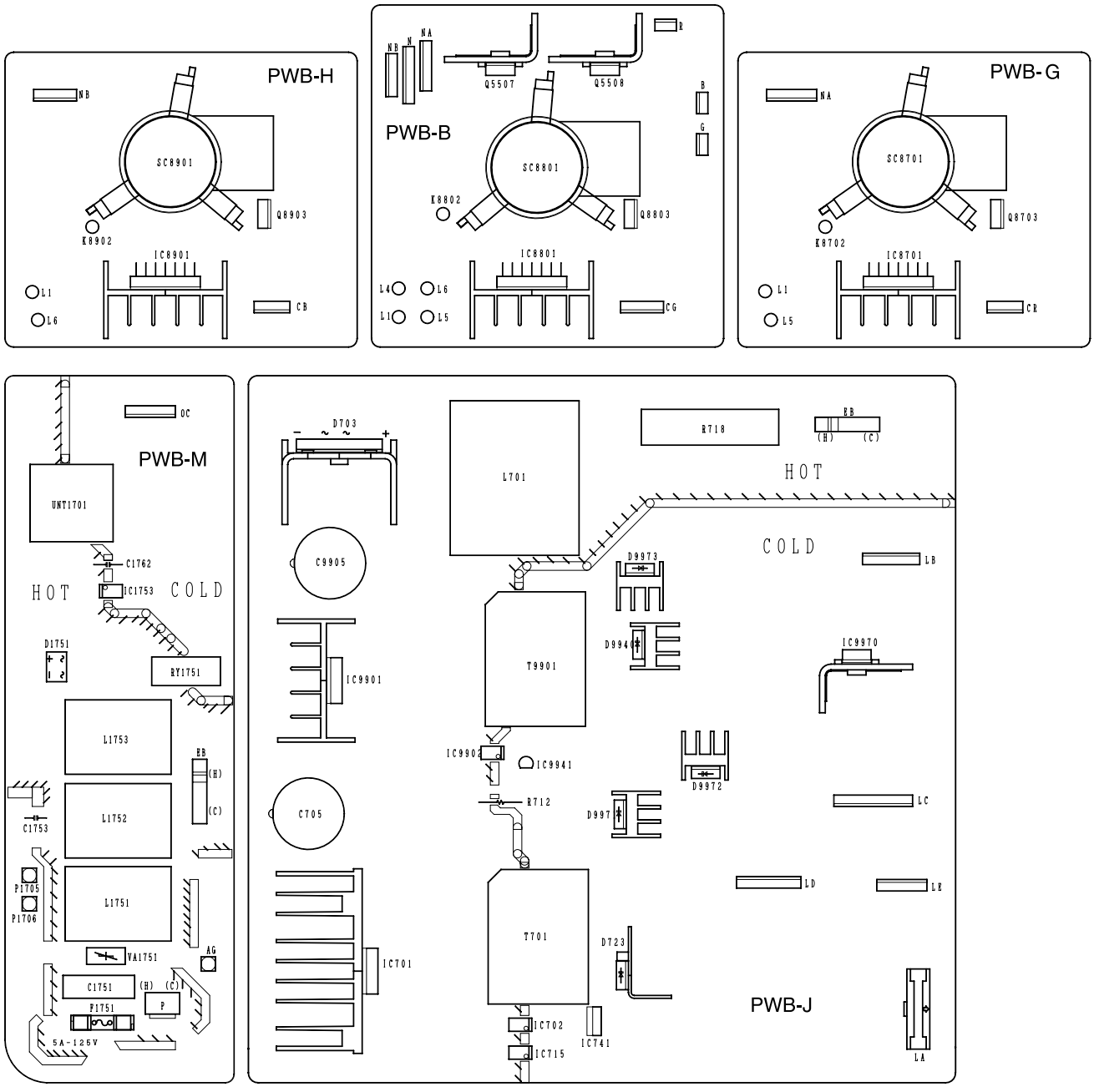


1. CENTERING MAGNET FOR RED CRT
2. CENTERING MAGNET FOR GREEN CRT
3. CENTERING MAGNET FOR BLUE CRT
4. 4-POLE MAGNET FOR BEAM SHAPE ADJUSTMENT
5. BEAM ALIGNMENT MAGNET
6. DIGITAL CONVERGENCE MODULE
7. FOCUS PACK (TOP ADJUSTMENT FOR SCREEN, BOTTOM FOR FOCUS)

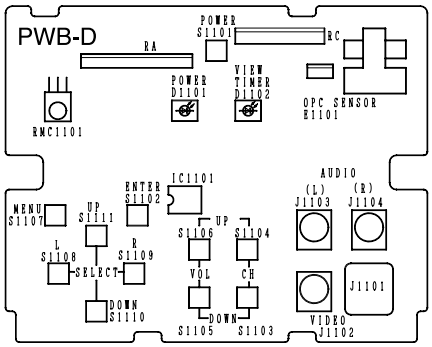
Convergence Adjustment Key Chart

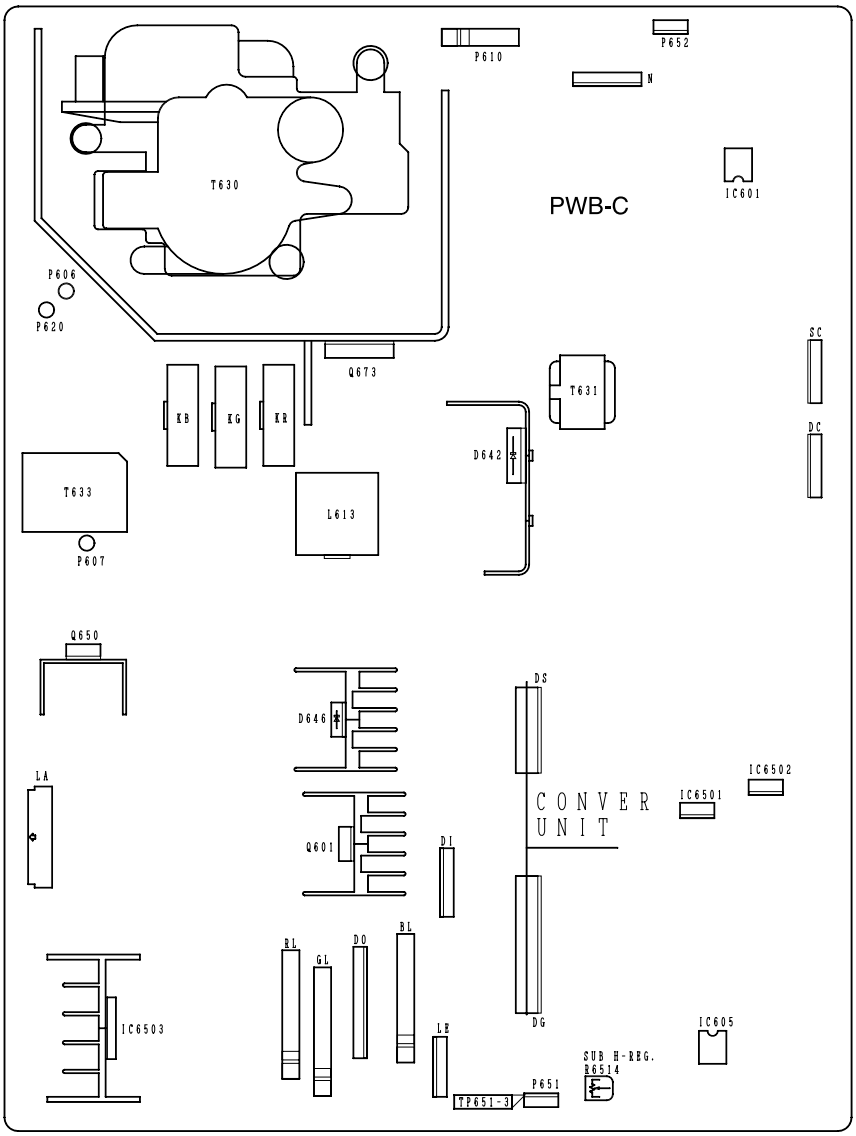


CHASSIS LAYOUT-1/4



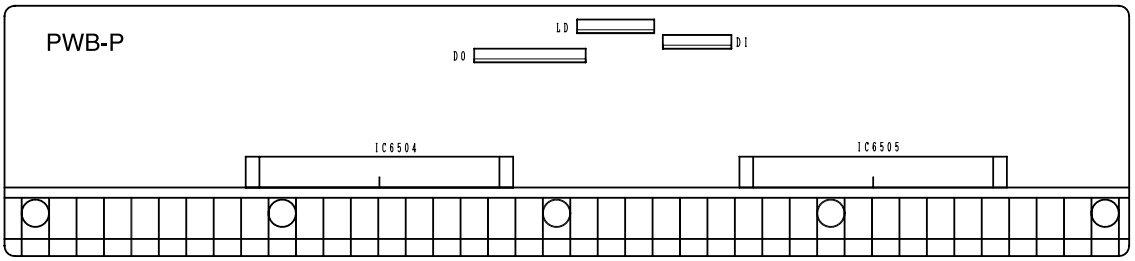
CHASSIS LAYOUT-2/4

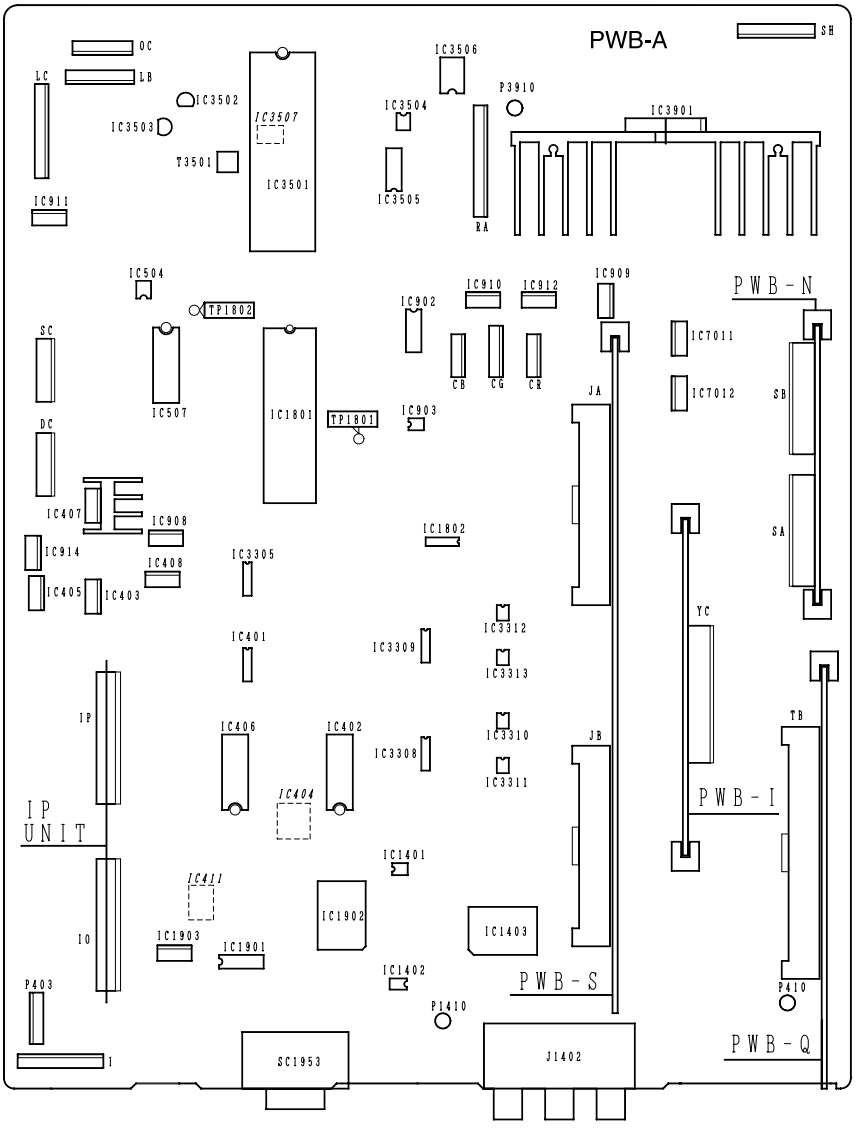




	1	2	3	4	5	6

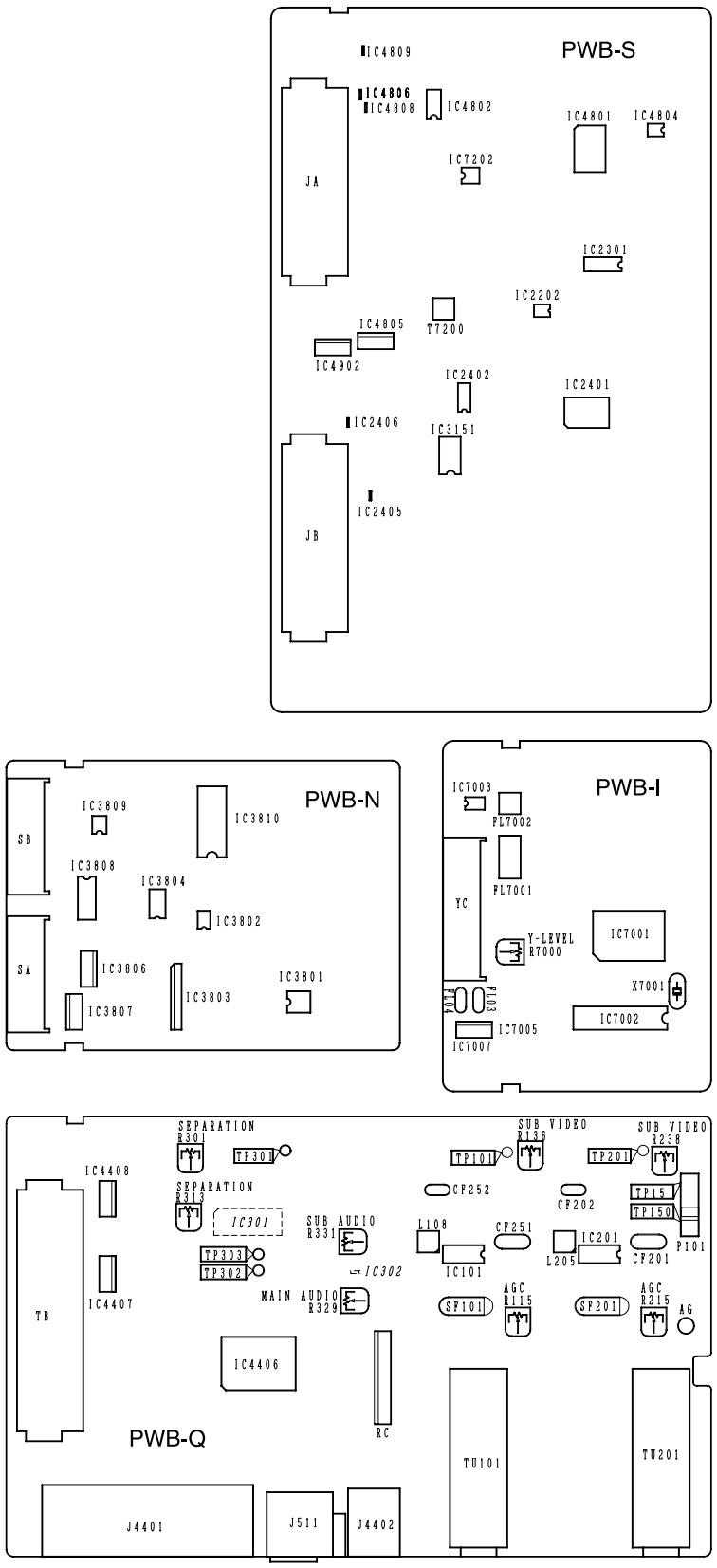
CHASSIS LAYOUT-3/4



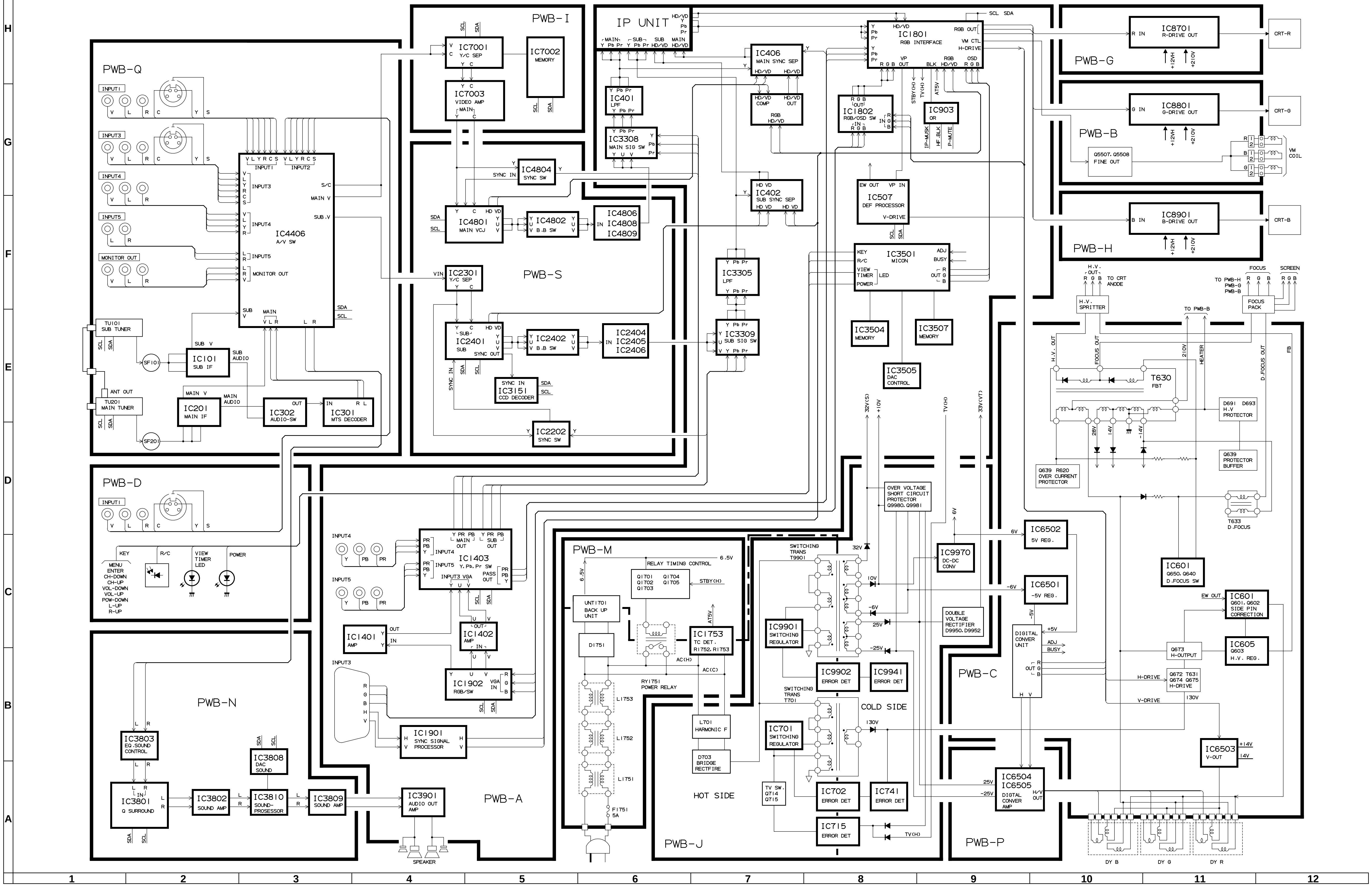


	1	2	3	4	5	6

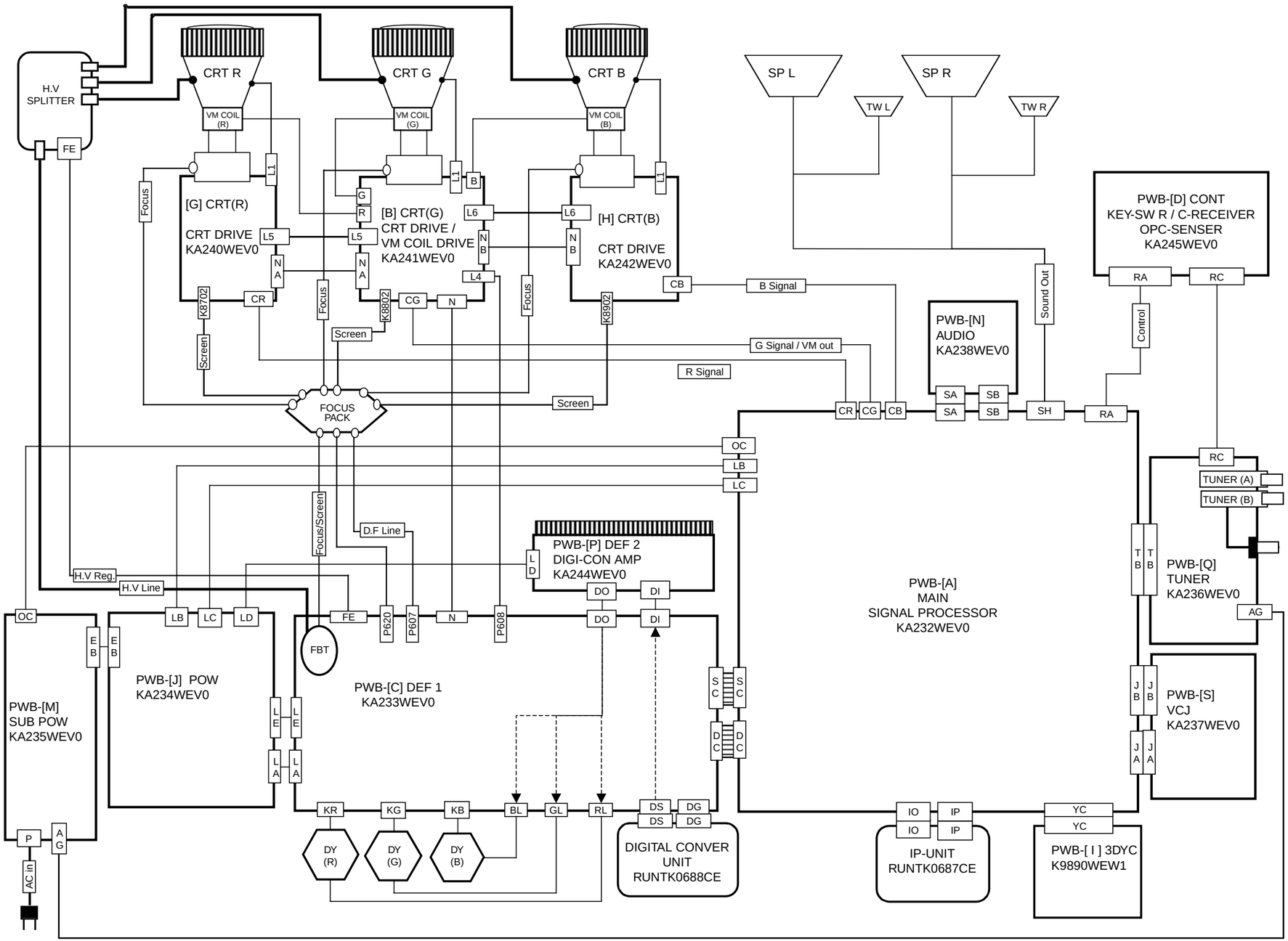
CHASSIS LAYOUT-4/4



BLOCK DIAGRAM


PWB-Q
INPUT1
INPUT3
INPUT4
INPUT5
MONITOR OUT
IC4406
A/V SW
TU101
SUB TUNER
TU201
MAIN TUNER
ANT OUT
SF101
SF201
IC101
SUB IF
IC201
MAIN IF
IC302
AUDIO-SW
IC301
MTS DECODER
PWB-I
IC7001
Y/C SEP
IC7002
MEMORY
IC7003
VIDEO AMP
PWB-S
IC4804
SYNC SW
IC4801
MAIN VCJ
IC4802
B.B SW
IC4806
IC4808
IC4809
IC2301
Y/C SEP
IC2401
SUB
IC2402
B.B SW
IC2404
IC2405
IC2406
IC3151
CCD DECODER
IC2202
SYNC SW
IP UNIT
IC401
LPF
IC3308
MAIN SIG SW
IC406
MAIN SYNC SEP
HD/VD COMP
RGB HD/VD
IC402
SUB SYNC SEP
IC3305
LPF
IC3309
SUB SIG SW
IC1801
RGB INTERFACE
IC1802
RGB/OSD SW
IC903
OR
STBY(H)
TV(H)
AT5V
IP-MUSK
HF.BLK
P-MUTE
IC507
DEF PROCESSOR
IC3501
MICON
IC3504
MEMORY
IC3507
MEMORY
IC3505
DAC CONTROL
PWB-G
IC8701
R-DRIVE OUT
CRT-R
PWB-B
IC8801
G-DRIVE OUT
CRT-G
Q5507, Q5508
FINE OUT
VM COIL
PWB-H
IC8901
B-DRIVE OUT
CRT-B
+12VH
+210V
H.V. SPRITTER
TO CRT ANODE
FOCUS PACK
FOCUS
SCREEN
TO PWB-H PWB-G PWB-B
TO PWB-B
T630
FBT
D691 D693
H.V PROTECTOR
Q639 PROTECTOR BUFFER
Q639 R620
OVER CURRENT PROTECTOR
T633
D.FOCUS
PWB-D
KEY
MENU
ENTER
CH-DOWN
CH-UP
VOL-DOWN
VOL-UP
POW-DOWN
L-UP
R-UP
R/C
VIEW TIMER LED
POWER
PWB-N
IC3803
EQ.SOUND CONTROL
IC3801
Q SURROUND
IC3802
SOUND AMP
IC3808
DAC SOUND
IC3810
SOUND-PROSESSOR
IC3809
SOUND AMP
PWB-A
IC1403
Y,Pb,Pr SW
IC1401
AMP
IC1402
AMP
IC1902
RGB/SW
IC1901
SYNC SIGNAL PROCESSOR
IC3901
AUDIO OUT AMP
SPEAKER
PWB-M
UNT1701
BACK UP UNIT
D1751
Q1701 Q1702 Q1703
Q1704 Q1705
RELAY TIMING CONTROL
STBY(H)
IC1753
TC DET.
R1752, R1753
RY1751
POWER RELAY
L1753
L1752
L1751
F1751
5A
PWB-J
L701
HARMONIC F
D703
BRIDGE RECTFIRE
HOT SIDE
COLD SIDE
SWITCHING TRANS T9901
SWITCHING TRANS T701
IC9901
SWITCHING REGULATOR
IC701
SWITCHING REGULATOR
IC9902
ERROR DET
IC9941
ERROR DET
IC702
ERROR DET
IC741
ERROR DET
IC715
ERROR DET
TV SW.
Q714
Q715
OVER VOLTAGE SHORT CIRCUIT PROTECTOR
Q9980, Q9981
IC9970
DC-DC CONV
DOUBLE VOLTAGE RECTIFIER
D9950, D9952
PWB-C
IC6502
5V REG.
IC6501
-5V REG.
DIGITAL CONVER UNIT
IC6504
IC6505
DIGTAL CONVER AMP
PWB-P
IC601
Q650, Q640
D.FOCUS SW
IC601
Q601, Q602
SIDE PIN CORRECTION
IC605
Q603
H.V. REG.
Q673
H-OUTPUT
Q672 T631
Q674 Q675
H-DRIVE
IC6503
V-OUT
DY B
DY G
DY R

UNIT LAYOUT


H.V SPLITTER
FE
CRT R
CRT G
CRT B
VM COIL (R)
VM COIL (G)
VM COIL (B)
SP L
SP R
TW L
TW R
[G] CRT(R)
CRT DRIVE KA240WEV0
[B] CRT(G) CRT DRIVE / VM COIL DRIVE KA241WEV0
[H] CRT(B) CRT DRIVE KA242WEV0
PWB-[D] CONT KEY-SW R / C-RECEIVER OPC-SENSER KA245WEV0
PWB-[N] AUDIO KA238WEV0
B Signal
G Signal / VM out
R Signal
Screen
Focus
Sound Out
Control
FOCUS PACK
OC
LB
LC
LD
Focus/Screen
D.F Line
H.V Reg.
H.V Line
PWB-[P] DEF 2 DIGI-CON AMP KA244WEV0
PWB-[A] MAIN SIGNAL PROCESSOR KA232WEV0
PWB-[Q] TUNER KA236WEV0
TUNER (A)
TUNER (B)
AG
PWB-[M] SUB POW KA235WEV0
PWB-[J] POW KA234WEV0
FBT
PWB-[C] DEF 1 KA233WEV0
PWB-[S] VCJ KA237WEV0
AC in
DY (R)
DY (G)
DY (B)
DIGITAL CONVER UNIT RUNTK0688CE
IP-UNIT RUNTK0687CE
PWB-[I] 3DYC K9890WEW1

DESCRIPTION OF SCHEMATIC DIAGRAM

NOTES:

1. *The unit of resistance "ohm" is omitted. (K=kΩ=1000Ω, M=MΩ)*
2. *All resistors are 1/16 watt, unless otherwise noted.*
3. *All capacitors are μ F, unless otherwise noted. (P=pF=μμF)*
4. *(G) indicates ±2% tolerance may be used.*
5. *⏚ indicates line isolated ground.*

VOLTAGE MEASUREMENT CONDITIONS:

1. *All DC voltages are measured with DVM connected between points indicated and chassis ground, line voltage set at 120V AC and all controls set for normal picture unless otherwise indicated.*
2. *All voltages measured with 1000μ V B & W or Color signal.*

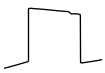
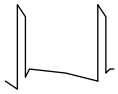
WAVEFORM MEASUREMENT CONDITIONS:

1. *Photographs taken on a standard gated color bar signal, the tint setting adjusted for proper color. The wave shapes at the red, green and blue cathodes of the picture tube depend on the tint, color level and picture control.*
2. *◯▶ indicates waveform check points (See chart, waveforms are measured from point indicated to chassis ground.)*

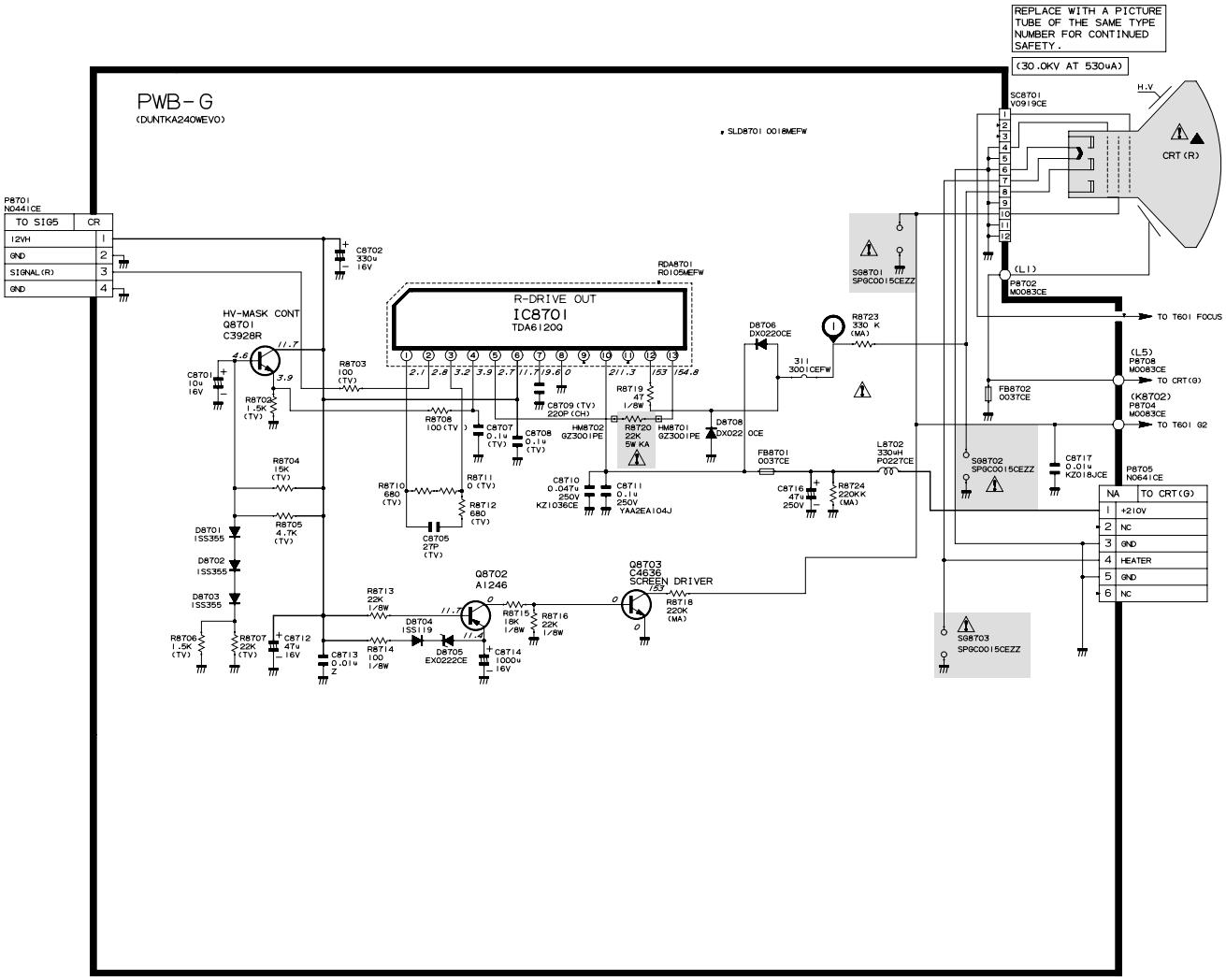
⚠ AND SHADED ( ) COMPONENTS = SAFETY RELATED PARTS.
▲ MARK= X-RAY RELATED PARTS.

This circuit diagram is a standard one, printed circuits may be subject to change for product improvement without prior notice.

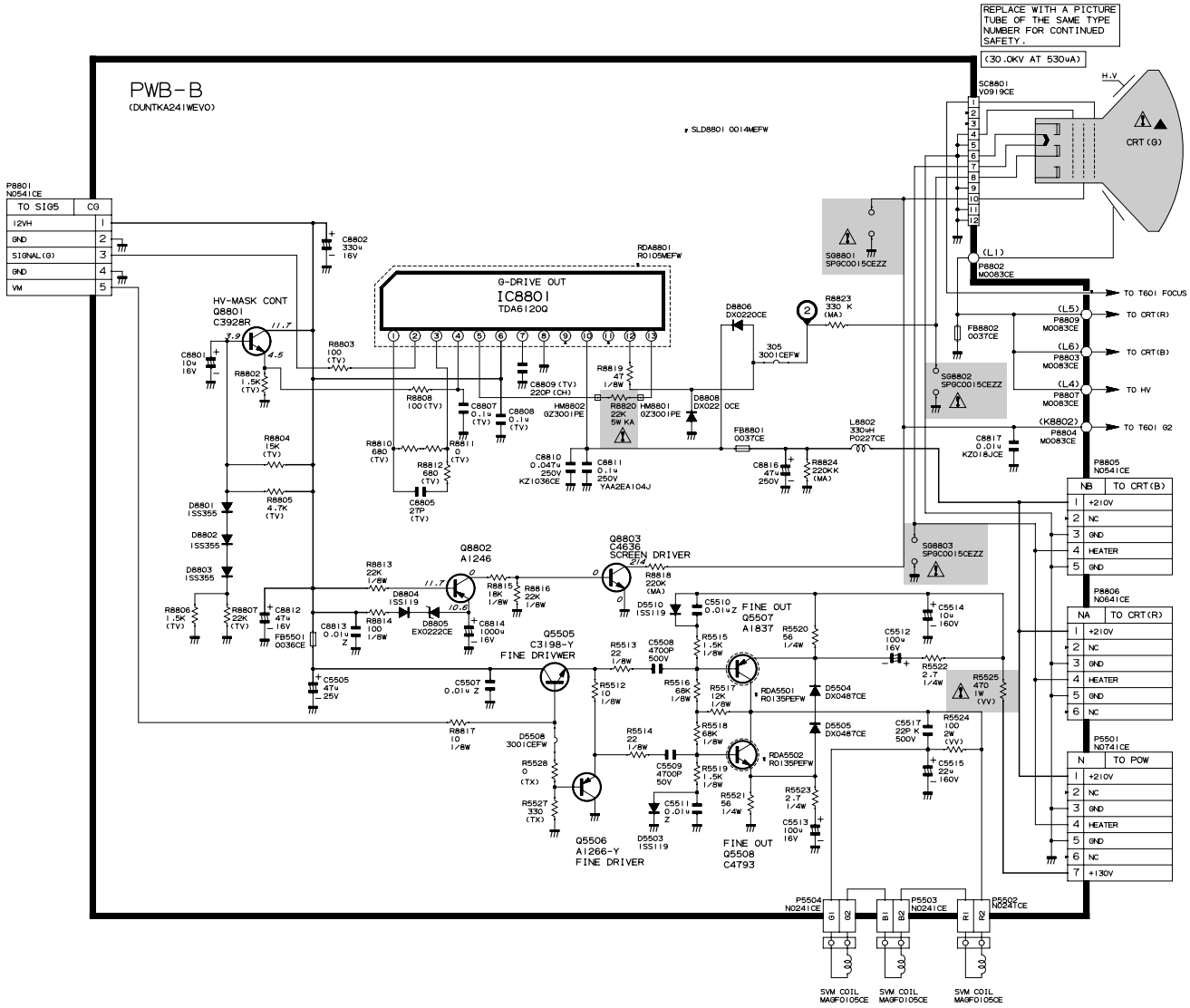
WAVEFORMS

① R8723	② R8823	③ R8923	④ IC701 1-pin	⑤ IC701 3-pin
(H) 120Vp-p	120Vp-p	120Vp-p	(59k) 3.0Vp-p	(59k) 310Vp-p
⑥ T701 13-pin	⑦ Q672 G	⑧ T631 1-pin	⑨ FB655	⑩ IC601 3-pin
				
(59k) 250Vp-p	(H) 9Vp-p	(H) 160Vp-p	(H) 1600Vp-p	(H) 0.8Vp-p
⑪ IC6503 4-pin	⑫ IC6503 2-pin	⑬ IC618 1-pin	⑭ P618 3-pin	
				
(V) 1.3Vp-p	(V) 5.2Vp-p	(H) 4.0Vp-p	(H) 9.5Vp-p	

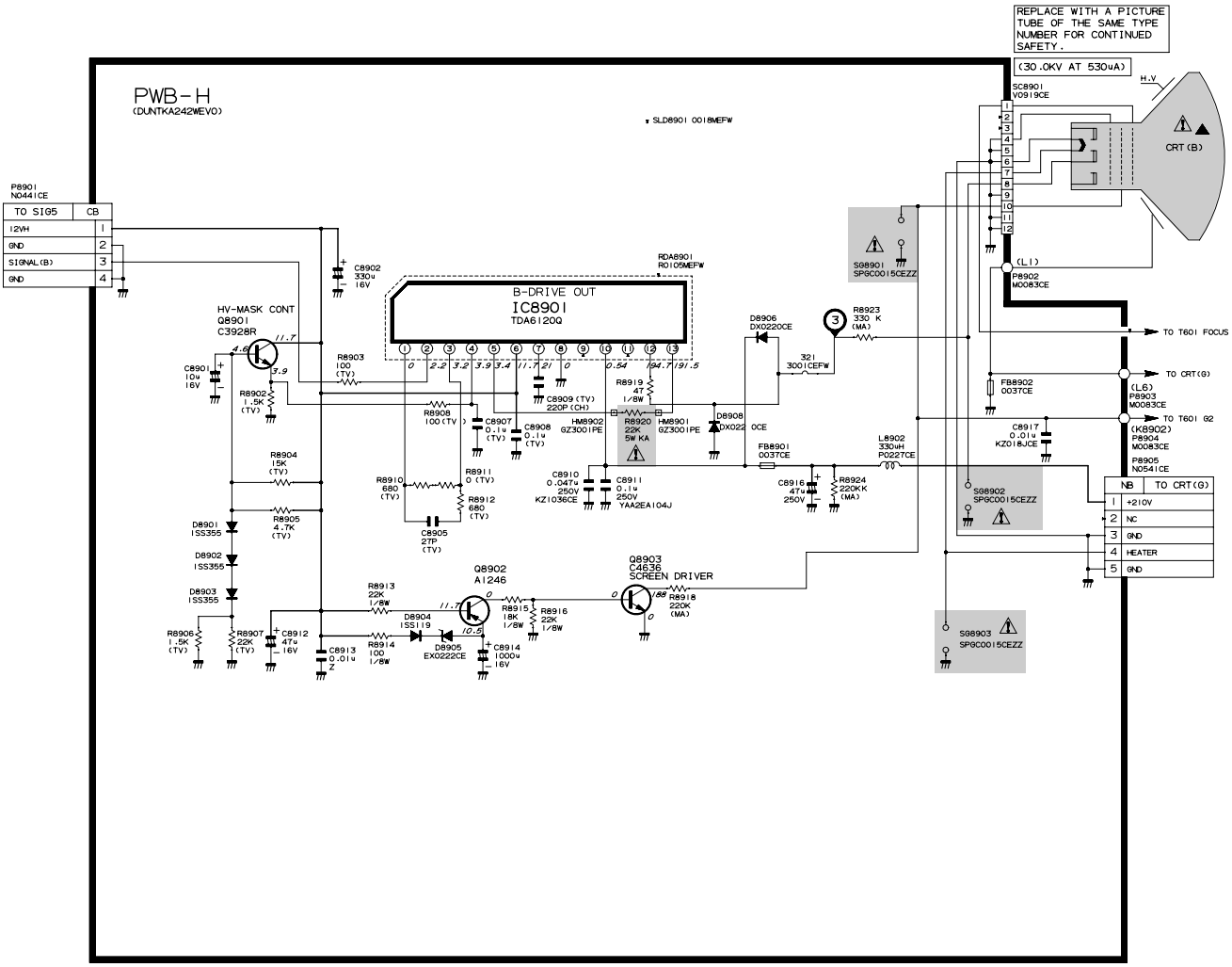
■ CRT RED UNIT


REPLACE WITH A PICTURE TUBE OF THE SAME TYPE NUMBER FOR CONTINUED SAFETY.
(30.0KV AT 530uA)
PWB-G
(DUNTKA240WEVO)
SLD8701 0018MEFW
SC8701 V0919CE
H.V
CRT(R)
P8701 N0441CE
TO SIG5 CR
12VH 1
GND 2
SIGNAL(R) 3
GND 4
C8702 330u 16V
RDA8701 R0109MEFW
R-DRIVE OUT
IC8701
TDA6120Q
HV-MASK CONT
Q8701 C3928R
R8703 100 (TV)
C8701 10u 16V
R8702 1.5K (TV)
C8709 (TV) 220P (CH)
R8719 47 1/8W
R8720 22K 5W KA
HM8702 GZ3001PE
HM8701 GZ3001PE
D8706 DX0220CE
D8708 DX022 0CE
R8723 330 K (MA)
311 3001CEFW
R8708 100 (TV)
C8707 0.1u (TV)
C8708 0.1u (TV)
R8704 15K (TV)
R8705 4.7K (TV)
R8710 680 (TV)
R8711 0 (TV)
R8712 680 (TV)
C8705 27P (TV)
C8710 0.047u 250V KZ1036CE
C8711 0.1u 250V YAA2EA104J
FB8701 0037CE
L8702 330uH P0227CE
C8716 47u 250V
R8724 220KK (MA)
D8701 ISS355
D8702 ISS355
D8703 ISS355
Q8702 A1246
R8713 22K 1/8W
D8704 ISS119
R8715 18K 1/8W
R8716 22K 1/8W
Q8703 C4636 SCREEN DRIVER
R8718 220K (MA)
R8706 1.5K (TV)
R8707 22K (TV)
C8712 47u 16V
C8713 0.01u Z
R8714 100 1/8W
D8705 EX0222CE
C8714 1000u 16V
S98701 SP6C0015CEZZ
S98702 SP6C0015CEZZ
S98703 SP6C0015CEZZ
(L1)
P8702 M0083CE
TO T601 FOCUS
(L5)
P8708 M0083CE
TO CRT(G)
FB8702 0037CE
(K8702)
P8704 M0083CE
TO T601 G2
C8717 0.01u KZ018JCE
P8705 N0641CE
NA TO CRT(G)
1 +210V
2 NC
3 GND
4 HEATER
5 GND
6 NC

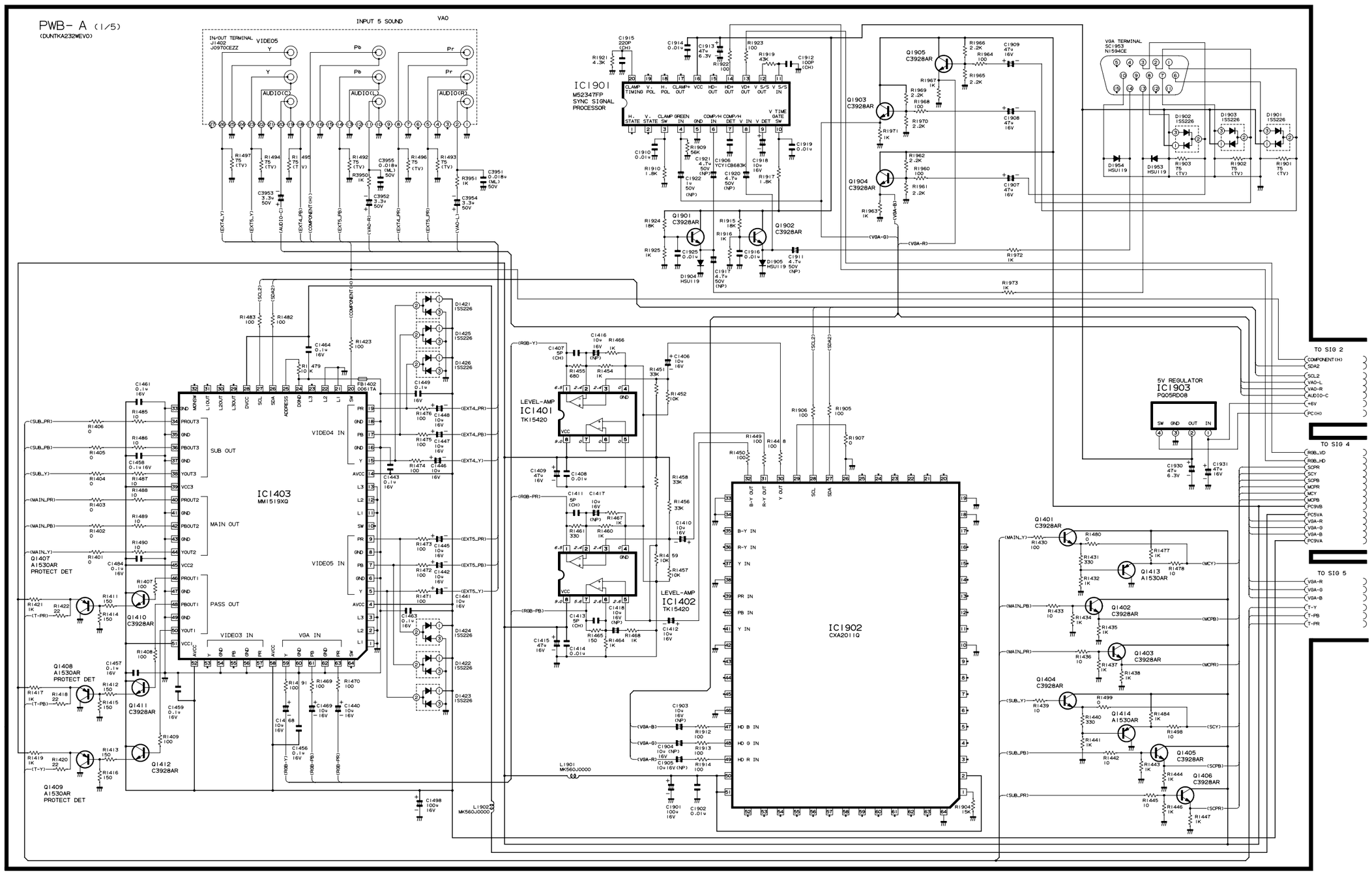
■ CRT GREEN UNIT



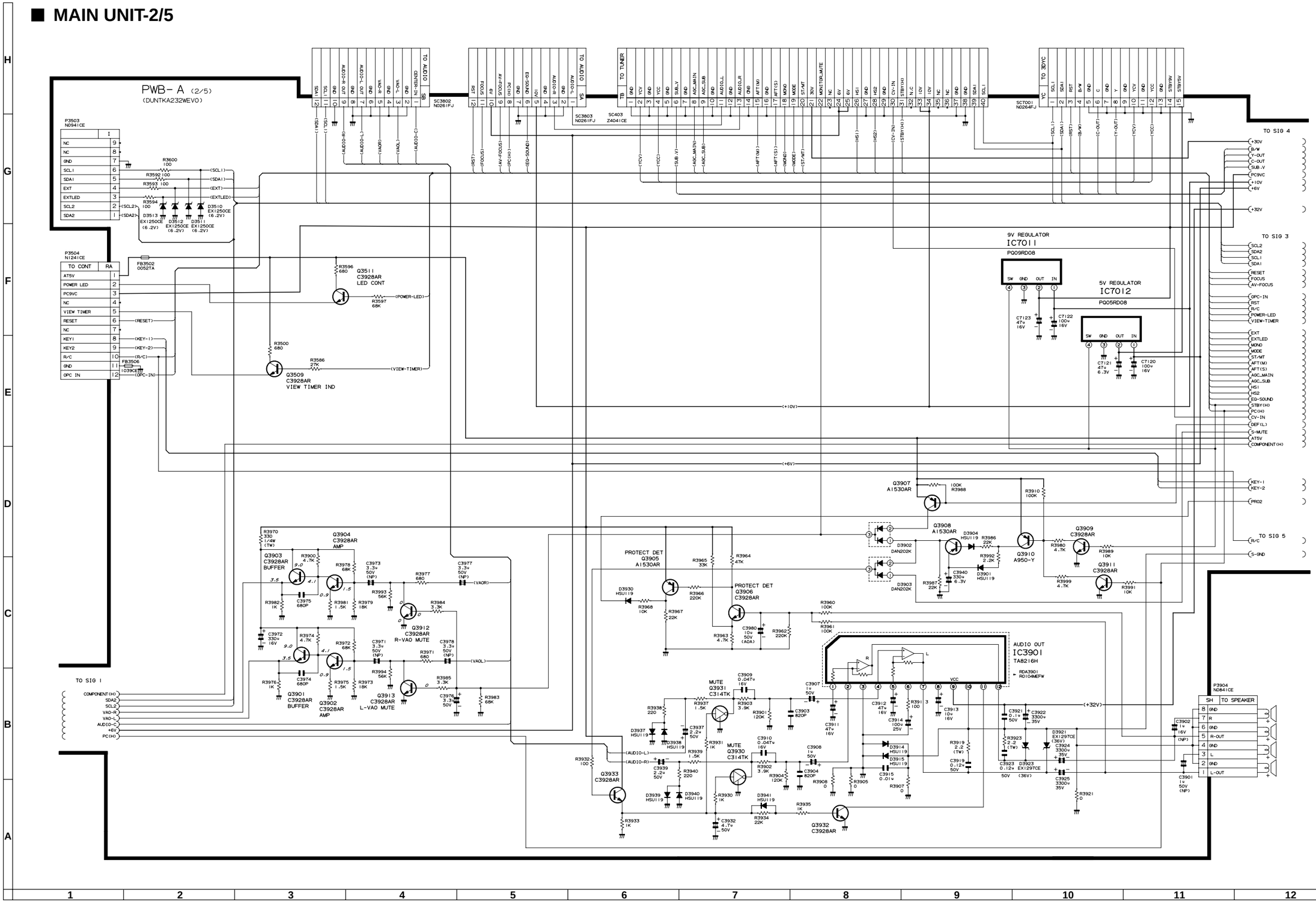
■ CRT BLUE UNIT



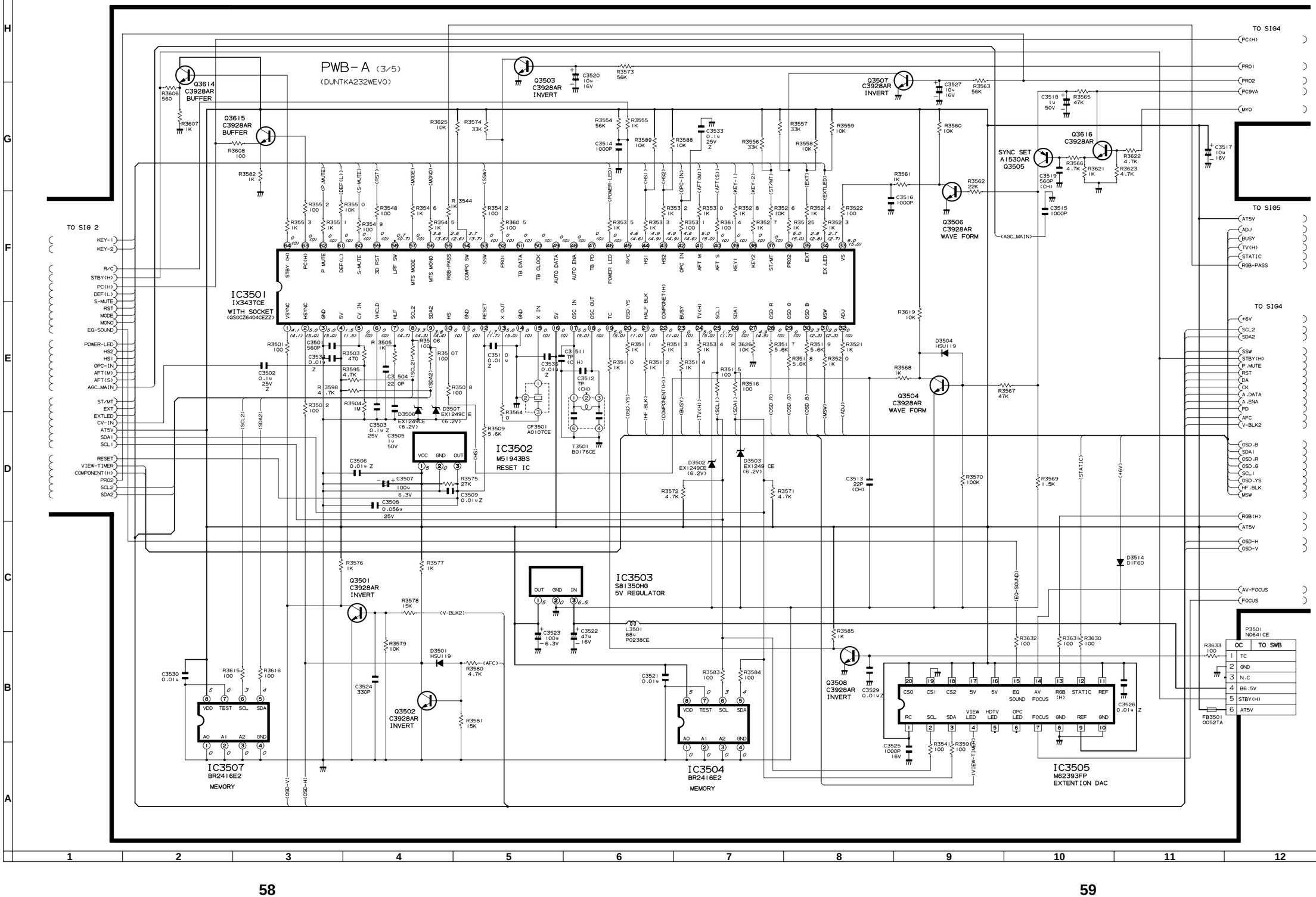
■ MAIN UNIT-1/5


PWB- A (1/5)
(DUNTKA232WEV0)
INPUT 5 SOUND
VAO
IN/OUT TERMINAL
J1402
J0970CEZZ
VIDEO5
Y
Pb
Pr
AUDIO(C)
AUDIO(L)
AUDIO(R)
IC1901
M52347FP
SYNC SIGNAL
PROCESSOR
CLAMP TIMING POL
H. POL
V. CLAMP+ OUT
VCC
HD- OUT
HD+ OUT
VD+ OUT
V S/S OUT
V S/S IN
H. STATE
V. STATE
CLAMP SW
GREEN IN
COMP/H GND
COMP/H IN
DET
V IN
V TIME GATE SW
V DET
Q1901 C3928AR
Q1902 C3928AR
Q1903 C3928AR
Q1904 C3928AR
Q1905 C3928AR
D1904 HSU119
D1905 HSU119
D1954 HSU119
D1953 HSU119
D1902 1SS226
D1903 1SS226
D1901 1SS226
V0A TERMINAL
SC1953
N1594CE
IC1403
MM1519XQ
MONSW
L1OUT
L2OUT
L3OUT
DVCC
SCL
SDA
ADDRESS
DGND
L3
L2
L1
SW
PR
PB
Y
AVCC
SUB OUT
MAIN OUT
PASS OUT
VIDEO3 IN
VGA IN
VIDEO4 IN
VIDEO5 IN
Q1407 A1530AR PROTECT DET
Q1408 A1530AR PROTECT DET
Q1409 A1530AR PROTECT DET
Q1410 C3928AR
Q1411 C3928AR
Q1412 C3928AR
LEVEL-AMP IC1401 TK15420
LEVEL-AMP IC1402 TK15420
IC1902
CXA2011Q
B-Y IN
R-Y IN
Y IN
PR IN
PB IN
HD B IN
HD G IN
HD R IN
B-Y OUT
R-Y OUT
Y OUT
SCL
SDA
L1901 MK560J00000
L1902 MK560J00000
5V REGULATOR
IC1903
PQ05RD08
TO SIG 2
TO SIG 4
TO SIG 5
COMPONENT(H)
SDA2
SCL2
VA0-L
VA0-R
AUDIO-C
+6V
PC(H)
R0B_VD
R0B_HD
SCPR
SCY
SCPB
MCPR
MCY
MCPB
PC9VB
PC5VA
V0A-R
V0A-G
V0A-B
PC9VA
T-Y
T-PB
T-PR
Q1401 C3928AR
Q1402 C3928AR
Q1403 C3928AR
Q1404 C3928AR
Q1405 C3928AR
Q1406 C3928AR
Q1413 A1530AR
Q1414 A1530AR

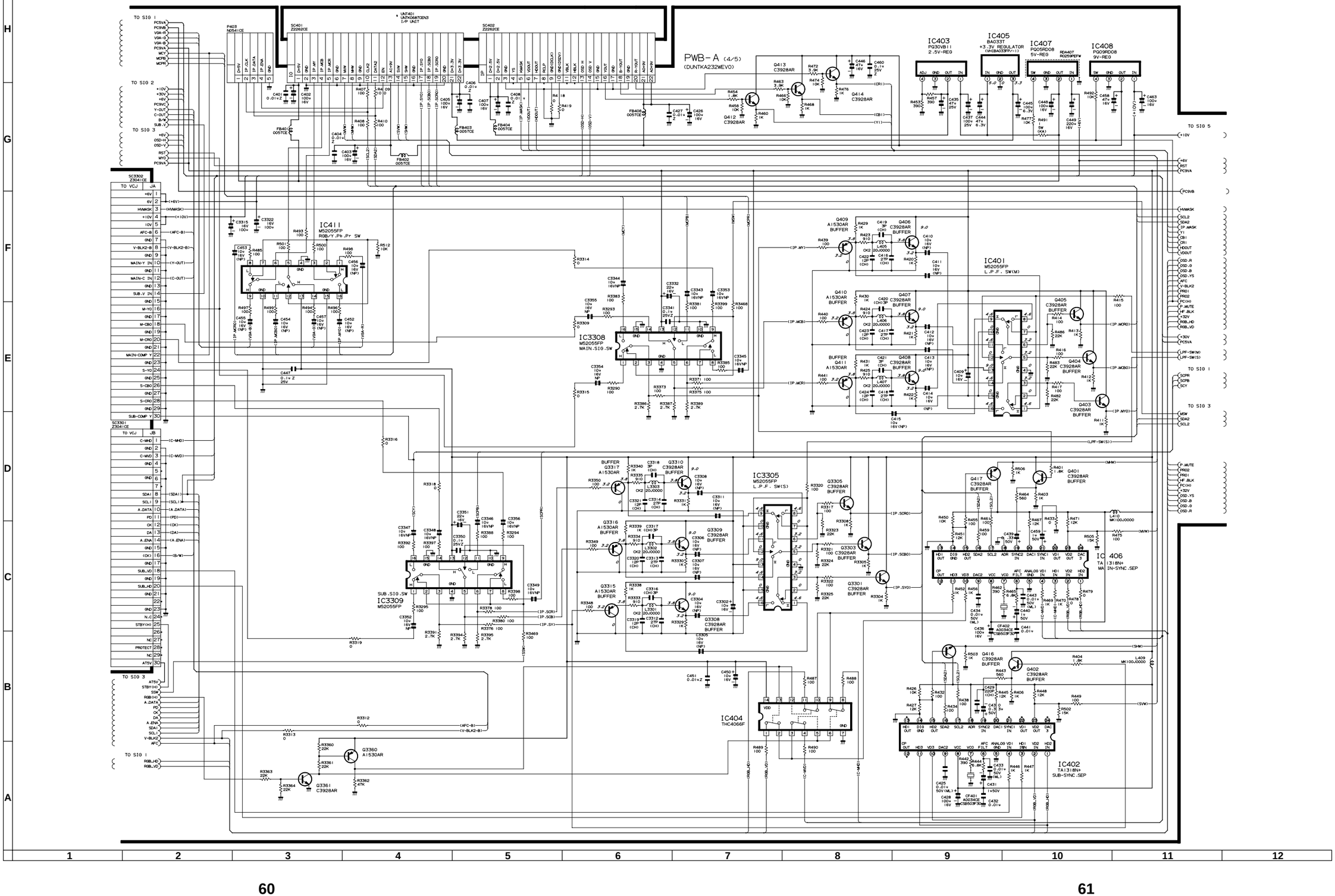
■ MAIN UNIT-2/5


PWB- A (2/5)
(DUNTKA232WEVO)
SC3802 N0261FJ
SC3803 N0261FJ
SC403 Z4041CE
SC7001 N0264FJ
P3503 N0941CE
P3504 N1241CE
P3904 N0841CE
TO SIG 1
TO SIG 3
TO SIG 4
TO SIG 5
9V REGULATOR IC7011 P009RD08
5V REGULATOR IC7012 P005RD08
AUDIO OUT IC3901 TA8216H
Q3901 C3928AR BUFFER
Q3902 C3928AR AMP
Q3903 C3928AR BUFFER
Q3904 C3928AR AMP
Q3509 C3928AR VIEW TIMER IND
Q3511 C3928AR LED CONT
Q3912 C3928AR R-VAO MUTE
Q3913 C3928AR L-VAO MUTE
Q3930 C3147K MUTE
Q3931 C3147K MUTE
Q3932 C3928AR
Q3933 C3928AR
Q3905 A1530AR PROTECT DET
Q3906 C3928AR PROTECT DET
Q3907 A1530AR
Q3908 A1530AR
Q3909 C3928AR
Q3910 A950-Y
Q3911 C3928AR
D3901 HSU119
D3902 DAN202K
D3903 DAN202K
D3904 HSU119
D3907 HSU119
D3908 HSU119
D3909 HSU119
D3910 HSU119
D3911 HSU119
D3912 HSU119
D3913 HSU119
D3914 HSU119
D3915 HSU119
D3921 EX1297CE (36V)
D3923 EX1297CE
D3930 HSU119
D3937 HSU119
D3938 HSU119
D3939 HSU119
D3940 HSU119
D3941 HSU119
D3510 EX1250CE (6.2V)
D3511 EX1250CE (6.2V)
FB3502 0052TA
FB3506 1039CE
R3500 680
R3509 27K
R3510 100
R3592 100
R3593 100
R3594 100
R3596 680
R3597 68K
R3600 100
C7120 100v 16V
C7121 47v 6.3V
C7122 100v 16V
C7123 47v 16V
C3901 1u 50V (NP)
C3902 1u 16V (NP)
C3903 820P
C3904 820P
C3907 1u 50V
C3908 1u 50V
C3909 0.047u 16V
C3910 0.047u 16V
C3911 47u 16V
C3912 47u 16V
C3913 10u 16V
C3914 100u 25V
C3915 0.01u
C3919 0.12u 50V
C3921 0.1u 50V
C3922 3300u 35V
C3923 0.12u (TW)
C3924 3300u 35V
C3925 3300u 35V
C3932 4.7u 50V
C3937 2.2u 50V
C3939 2.2u 50V
C3940 330u 6.3V
C3941 47u 16V
R3901 120K
R3902 3.9K
R3903 3.9K
R3904 120K
R3905 0
R3907 0
R3908 0
R3910 100K
R3919 2.2 (TW)
R3921 0
R3923 2.2 (TW)
R3930 1K
R3931 1K
R3932 100
R3933 1K
R3934 22K
R3935 1K
R3937 1.5K
R3938 220
R3939 1.5K
R3940 220
R3961 100K
R3962 220K
R3963 4.7K
R3964 47K
R3965 33K
R3966 220K
R3967 22K
R3968 10K
R3980 4.7K
R3983 68K
R3984 3.3K
R3985 3.3K
R3986 22K
R3987 22K
R3988 100K
R3989 10K
R3991 10K
R3992 2.2K
R3999 4.7K
R9313 100
(+10V)
(+6V)
(+32V)
(VAOR)
(VAOL)
(SCL1)
(SDA1)
(EXT)
(EXTLED)
(SCL2)
(SDA2)
(RESET)
(KEY-1)
(KEY-2)
(R/C)
(OPC-IN)
(POWER-LED)
(VIEW-TIMER)
(AUDIO-L)
(AUDIO-R)
(AUDIO-C)
COMPONENT(H)
SDA2
SCL2
VAO-R
VAO-L
AUDIO-C
+6V
PC(H)
+30V
B/W
Y-OUT
C-OUT
SUB.V
PC9VC
+10V
+6V
+32V
SCL2
SDA2
SCL1
SDA1
RESET
FOCUS
AV-FOCUS
OPC-IN
RST
R/C
POWER-LED
VIEW-TIMER
EXT
EXTLED
MONO
MODE
ST-MT
AFT(M)
AFT(S)
AGC_MAIN
AGC_SUB
HS1
HS2
EQ-SOUND
STBY(H)
PC(H)
CV-IN
DEF(L)
S-MUTE
AT5V
COMPONENT(H)
KEY-1
KEY-2
PR02
R/C
S-GND
8 GND
7 R
6 GND
5 R-OUT
4 GND
3 L
2 GND
1 L-OUT

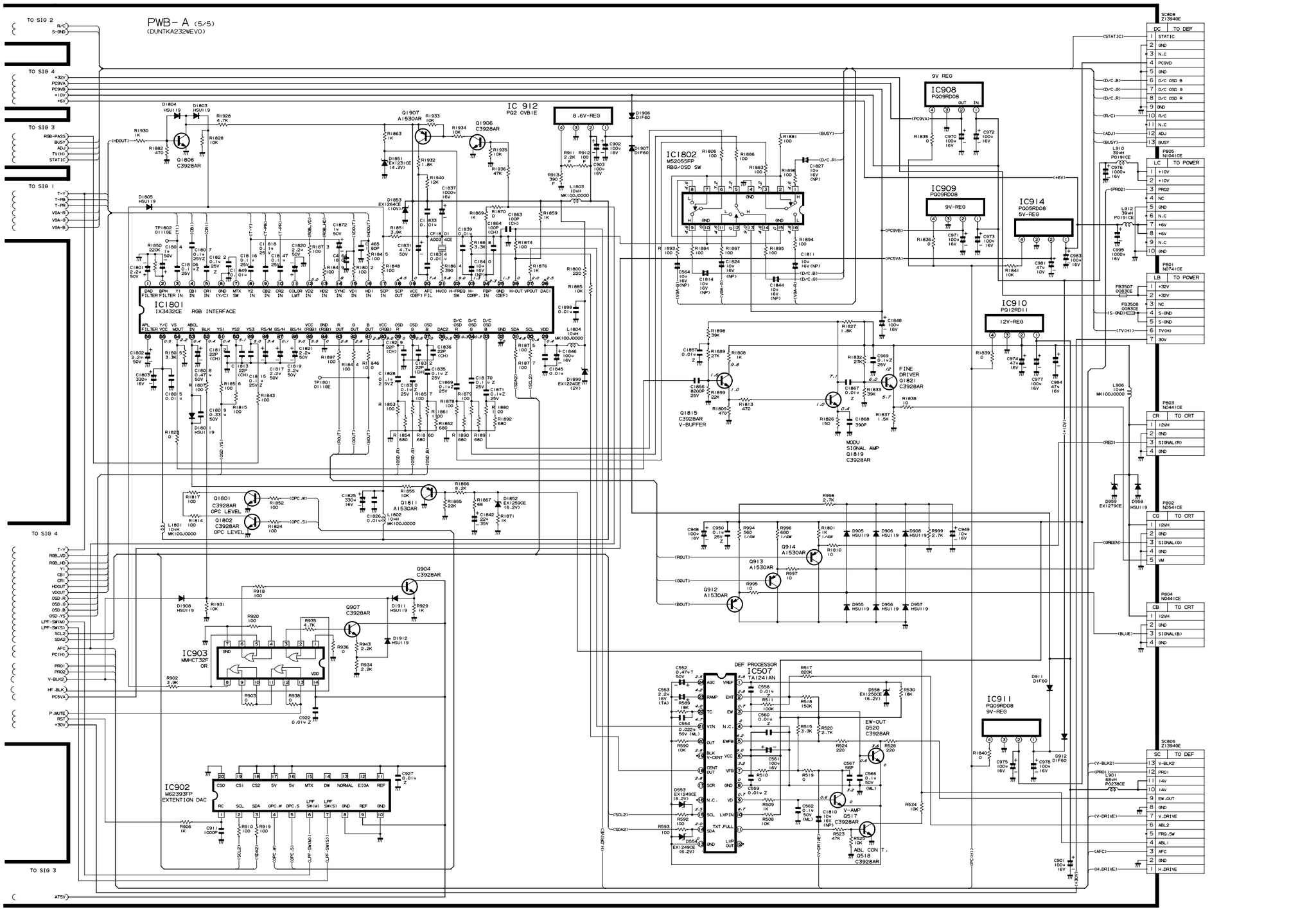
■ MAIN UNIT-3/5


PWB-A (3/5)
(DUNTKA232WEVO)
IC3501
1X3437CE
WITH SOCKET
(QSOCZ6404CEZZ)
IC3502
M51943BS
RESET IC
IC3503
S81350HG
5V REGULATOR
IC3504
BR2416E2
MEMORY
IC3505
M62393FP
EXTENTION DAC
IC3507
BR2416E2
MEMORY
Q3501 C3928AR INVERT
Q3502 C3928AR INVERT
Q3503 C3928AR INVERT
Q3504 C3928AR WAVE FORM
Q3506 C3928AR WAVE FORM
Q3507 C3928AR INVERT
Q3508 C3928AR INVERT
Q3614 C3928AR BUFFER
Q3615 C3928AR BUFFER
Q3616 C3928AR
SYNC SET A1530AR Q3505
TO SIG2
TO SIG4
TO SIG5
P3501 N0641CE
FB3501 0052TA
D3501 HSU119
D3502 EX1249CE (6.2V)
D3503 EX1249 CE (6.2V)
D3504 HSU119
D3514 D1F60

■ MAIN UNIT-4/5


PWB-A (4/5)
(DUNTKA232WEVO)
UNT401
UNTK0687CEN3
I-P UNIT
SC401
Z2262CE
SC402
Z2262CE
IC403
PQ30VB11
2.5V-REG
IC405
BA033T
+3.3V REGULATOR
(WHIBA033FP/-1)
IC407
PQ05RD08
5V-REG
IC408
PQ09RD08
9V-REG
IC411
M52055FP
RGB/Y,Pb,Pr SW
IC3308
M52055FP
MAIN.SIG.SW
IC3309
M52055FP
SUB.SIG.SW
IC3305
M52055FP
L.P.F. SW(S)
IC401
M52055FP
L.P.F. SW(M)
IC404
THC4066F
IC406
TA1318N+
IN-SYNC.SEP
IC402
TA1318N+
SUB-SYNC.SEP
SC3302
Z3041CE
SC3301
Z3041CE
TO VCJ JA
TO VCJ JB
TO SIG 1
TO SIG 2
TO SIG 3
TO SIG 5

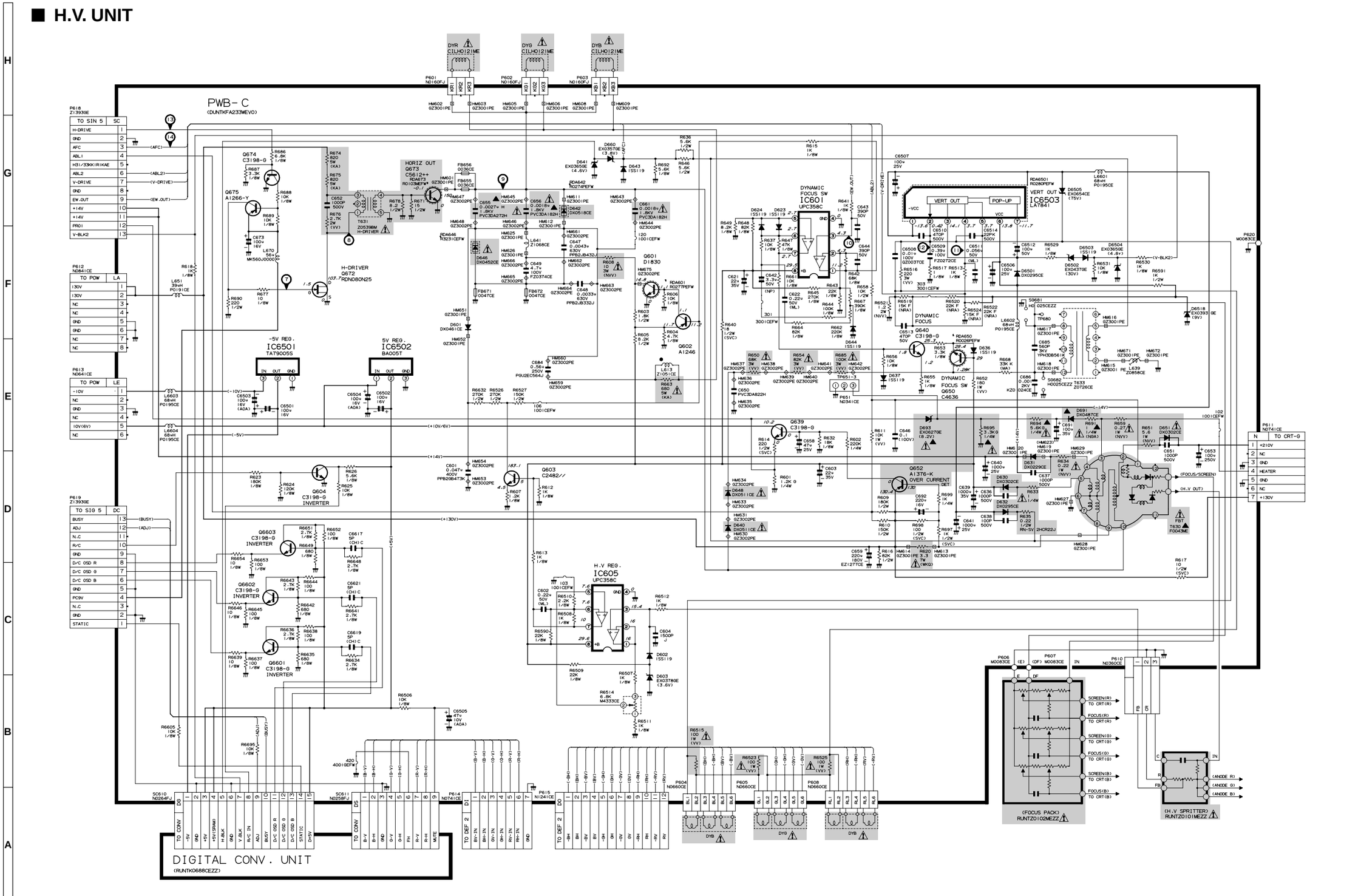
■ MAIN UNIT-5/5



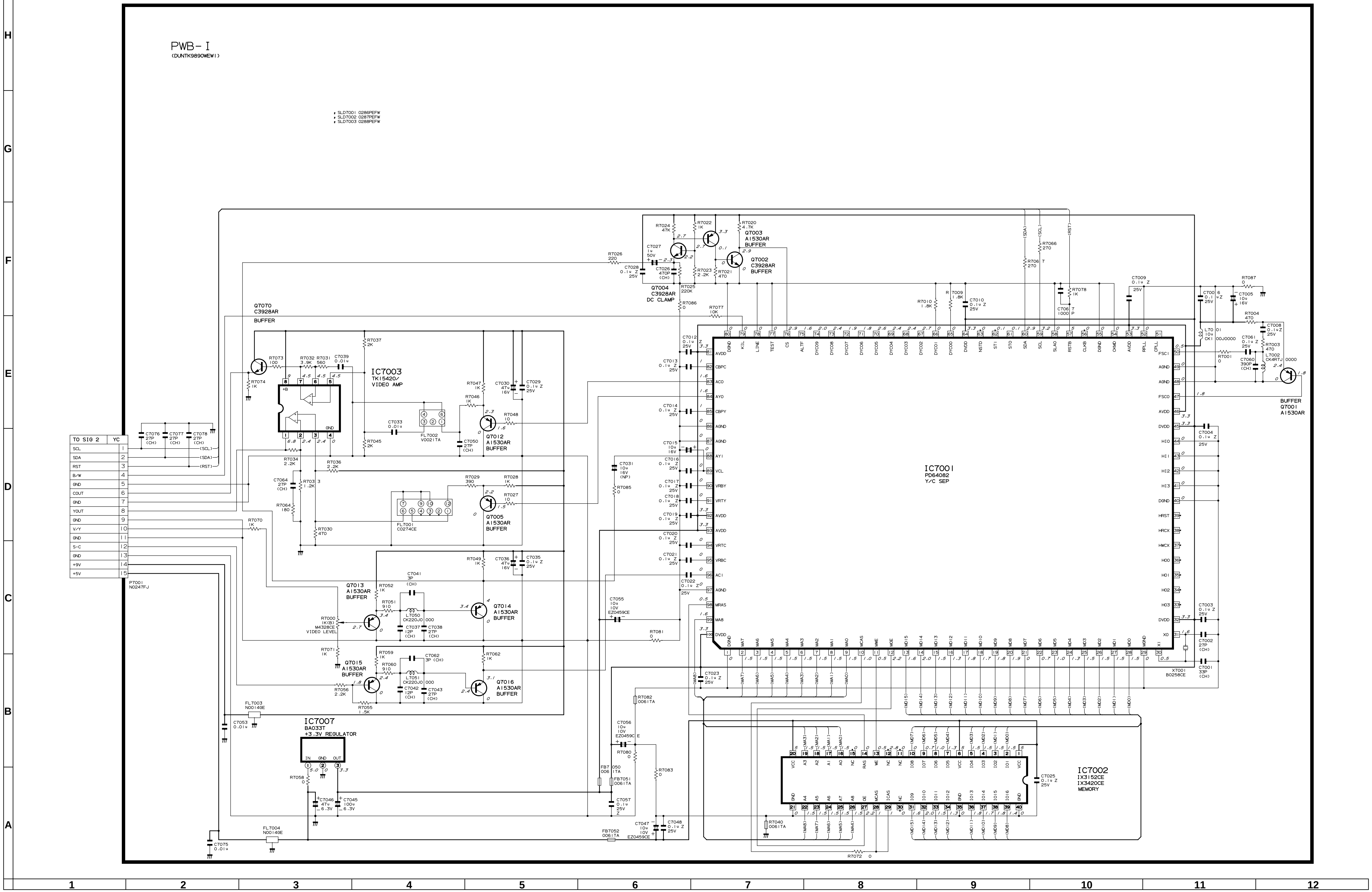
62

63

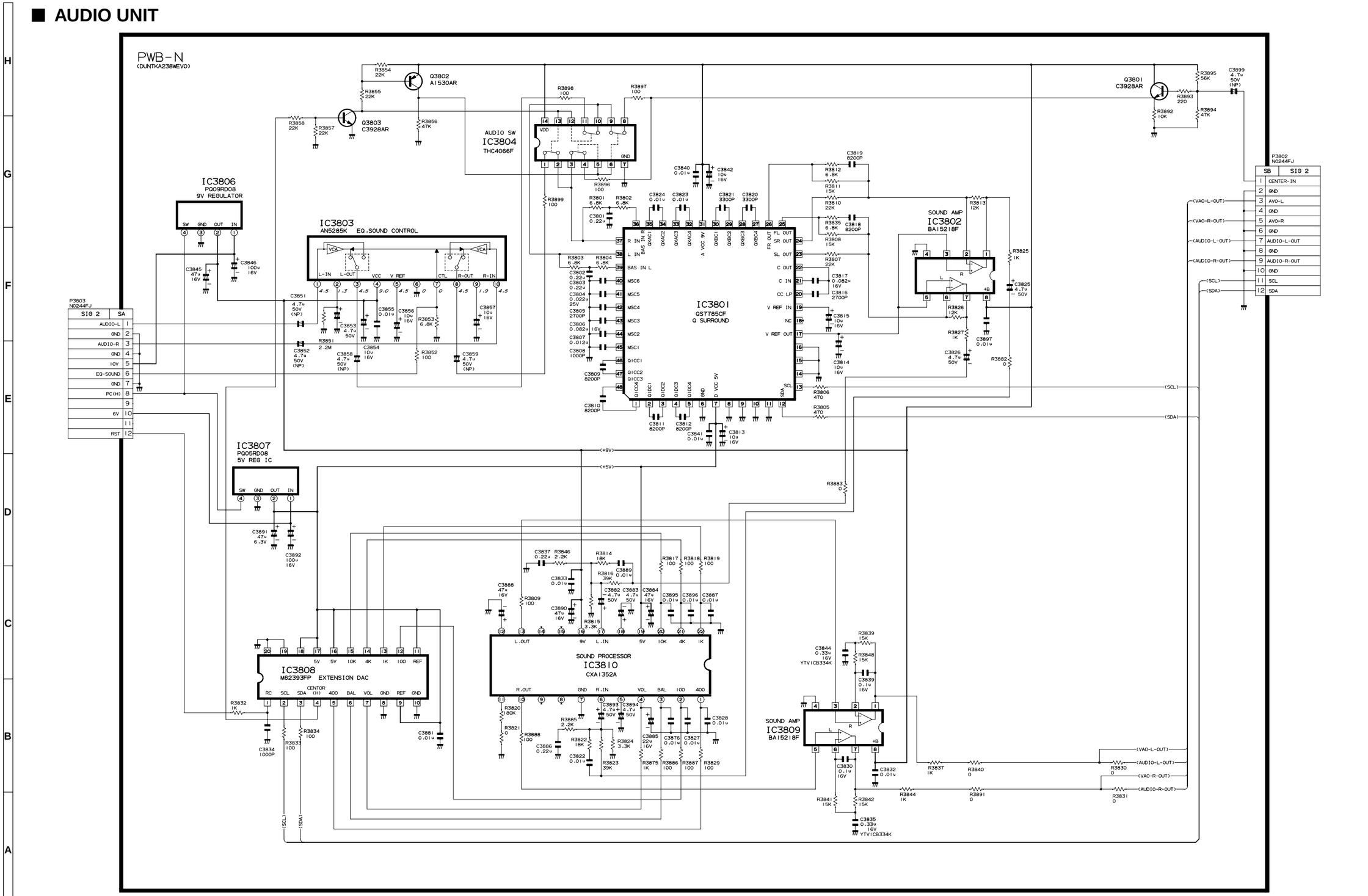
■ H.V UNIT


PWB- C
(DUNTKFA233WEVO)
DIGITAL CONV. UNIT
(RUNTK0688CEZZ)
H-DRIVER
Q672
2SD1820
HORIZ OUT
Q673
C5612++
RDM73
RO103MEFW
H.V REG.
IC605
UPC358C
DYNAMIC
FOCUS SW
IC601
UPC358C
VERT OUT
IC6503
LA7841
-5V REG.
IC6501
TA79005S
5V REG.
IC6502
BA005T
DYNAMIC
FOCUS SW
Q650
C4636
Q652
A1376-K
OVER CURRENT
Q639
C3198-G
Q640
C3198-G
Q674
C3198-G
Q675
A1266-Y
Q602
A1246
Q603
C2482//
Q604
C3198-G
INVERTER
Q6601
C3198-G
INVERTER
Q6602
C3198-G
INVERTER
Q6603
C3198-G
INVERTER
(FOCUS PACK)
RUNTZ0102MEZZ
(H.V SPRITTER)
RUNTZ0101MEZZ
TO SIN 5
TO POW
TO SIO 5
TO CRT-G
TO CONV
TO DEF 2
DYB
DYR
DYG

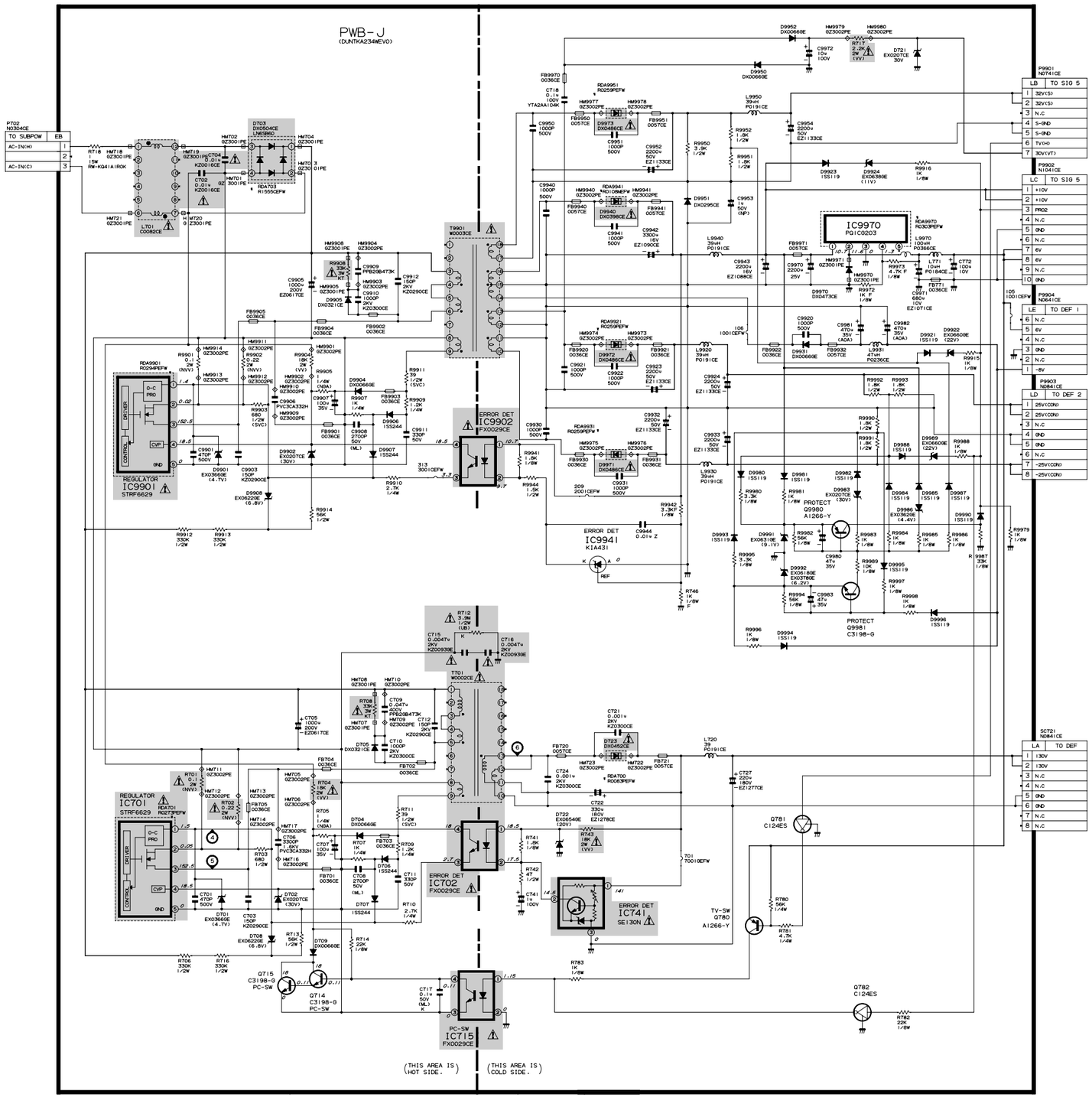
■ 3D Y/C SEPARATE UNIT


PWB-I
(DUNTK9890WEW1)
SLD7001 0286PEFW
SLD7002 0287PEFW
SLD7003 0288PEFW
TO SIG 2 YC
SCL 1
SDA 2
RST 3
B/W 4
GND 5
COUT 6
GND 7
YOUT 8
GND 9
V/Y 10
GND 11
S-C 12
GND 13
+9V 14
+5V 15
P7001 N0247FJ
Q7070 C3928AR BUFFER
IC7003 TK15420/ VIDEO AMP
FL7002 V0021TA
FL7001 C0274CE
Q7012 A1530AR BUFFER
Q7005 A1530AR BUFFER
Q7013 A1530AR BUFFER
Q7014 A1530AR BUFFER
Q7015 A1530AR BUFFER
Q7016 A1530AR BUFFER
R7000 1K(B) M4328CE VIDEO LEVEL
L7050 CK220J0 000
L7051 CK220J0 000
FL7003 N0014GE
FL7004 N0014GE
IC7007 BA033T +3.3V REGULATOR
IN GND OUT
Q7003 A1530AR BUFFER
Q7002 C3928AR BUFFER
Q7004 C3928AR DC CLAMP
IC7001 PD64082 Y/C SEP
BUFFER Q7001 A1530AR
L7001 10u CK100J0000
L7002 CK4R7J 0000
X7001 B0258CE
IC7002 IX3152CE IX3420CE MEMORY
FB7050 0061TA
FB7051 0061TA
FB7052 0061TA
R7082 0061TA
R7040 0061TA

■ AUDIO UNIT


PWB-N
(DUNTKA238WEVO)
IC3806
PQ09RD08
9V REGULATOR
IC3803
AN5285K EQ.SOUND CONTROL
IC3801
QS7785CF
Q SURROUND
IC3802
BA15218F
SOUND AMP
IC3804
THC4066F
AUDIO SW
IC3807
P005RD08
5V REG IC
IC3808
M62393FP EXTENSION DAC
IC3810
CXA1352A
SOUND PROCESSOR
IC3809
BA15218F
SOUND AMP
Q3801
C3928AR
Q3802
A1530AR
Q3803
C3928AR
P3803
N0244FJ
SIG 2
SA
AUDIO-L
GND
AUDIO-R
GND
10V
EQ-SOUND
GND
PC(H)
6V
RST
P3802
N0244FJ
SB
SIG 2
CENTER-IN
AVO-L
AVO-R
AUDIO-L-OUT
AUDIO-R-OUT
SCL
SDA
(VAO-L-OUT)
(VAO-R-OUT)
(AUDIO-L-OUT)
(AUDIO-R-OUT)
(SCL)
(SDA)
(+9V)
(+5V)

■ POWER UNIT



P9901 N0741CE	LB	TO SIG 5
	1	32V(S)
	2	32V(S)
	3	N.C
	4	S-GND
	5	S-GND
	6	TV(H)
	7	30V(VT)

P9902 N1041CE	LC	TO SIG 5
	1	+10V
	2	+10V
	3	PRO2
	4	N.C
	5	GND
	6	N.C
	7	6V
	8	6V
	9	N.C
	10	GND

P9904 N0641CE	LE	TO DEF 1
	6	N.C
	5	6V
	4	N.C
	3	GND
	2	N.C
	1	-8V

P9903 N2841CE	LD	TO DEF 2
	1	25V(CON)
	2	25V(CON)
	3	N.C
	4	GND
	5	GND
	6	N.C
	7	-25V(CON)
	8	-25V(CON)

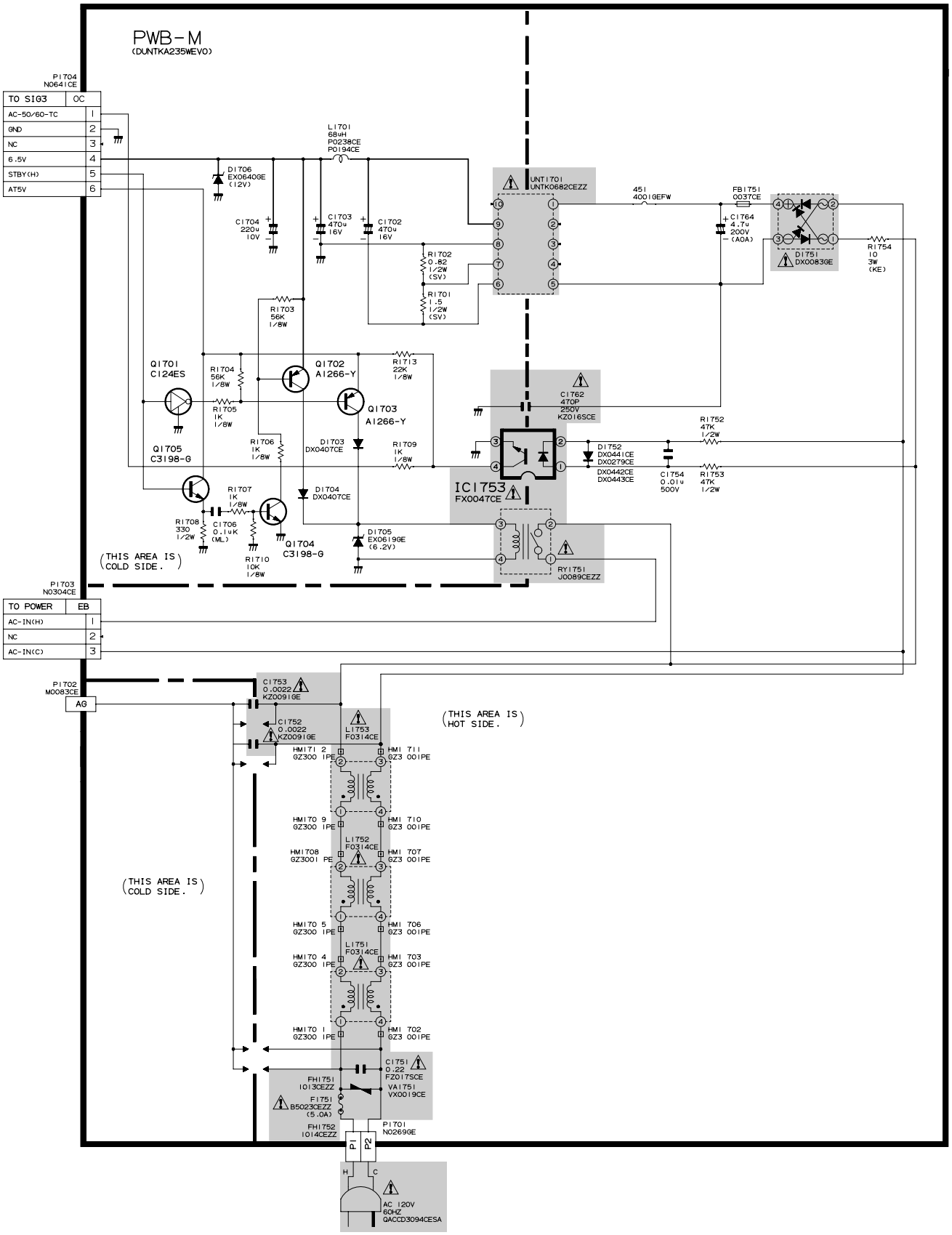
SC721 ND841CE	LA	TO DEF
	1	130V
	2	130V
	3	N.C
	4	N.C
	5	GND
	6	GND
	7	N.C
	8	N.C

PT02 N0304CE	EB
TO SUBPOW	
AC-IN(H)	1
	2
AC-IN(C)	3

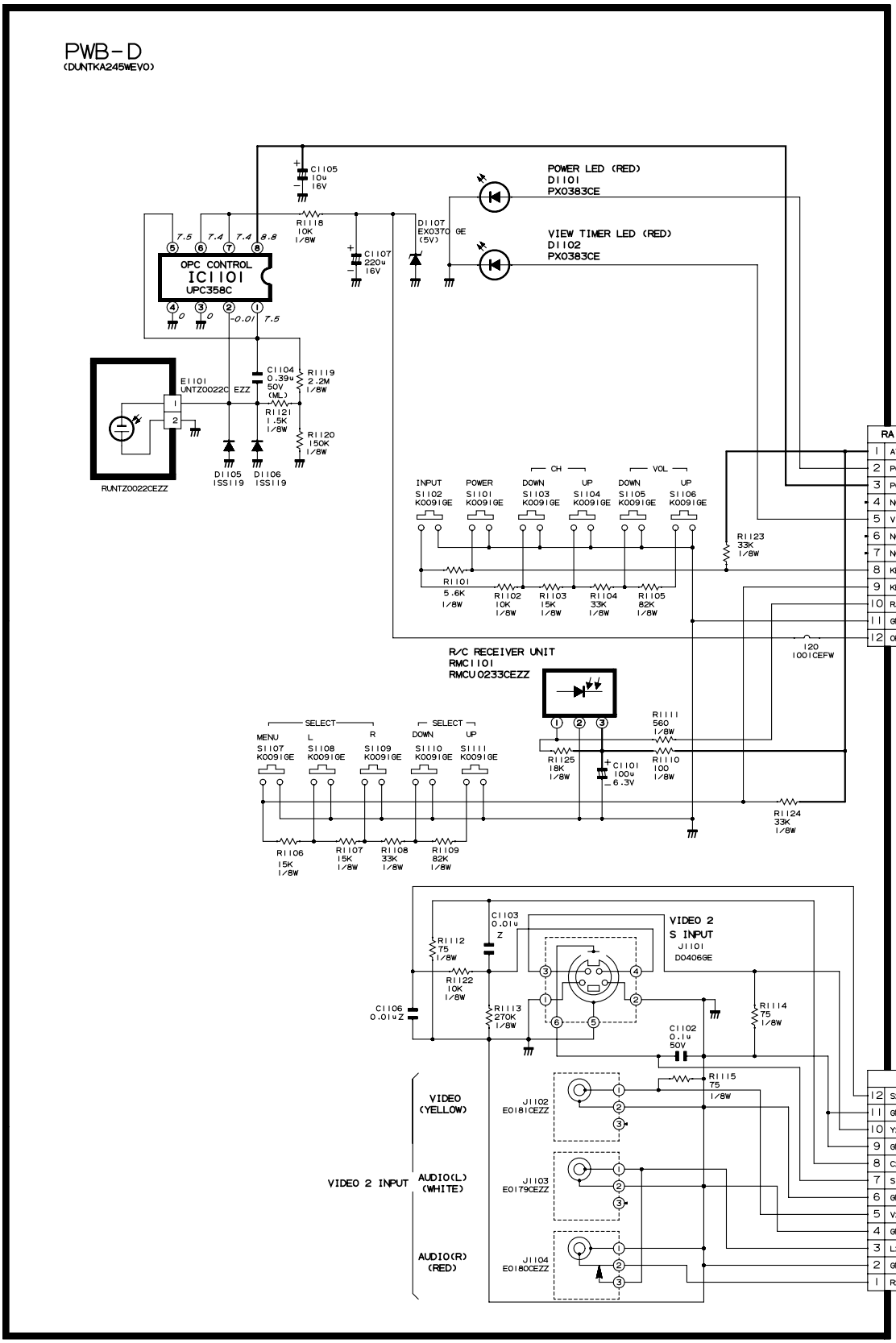
H	G	F	E	D	C	B	A

1	2	3	4	5	6	7	8	9	10	11	12

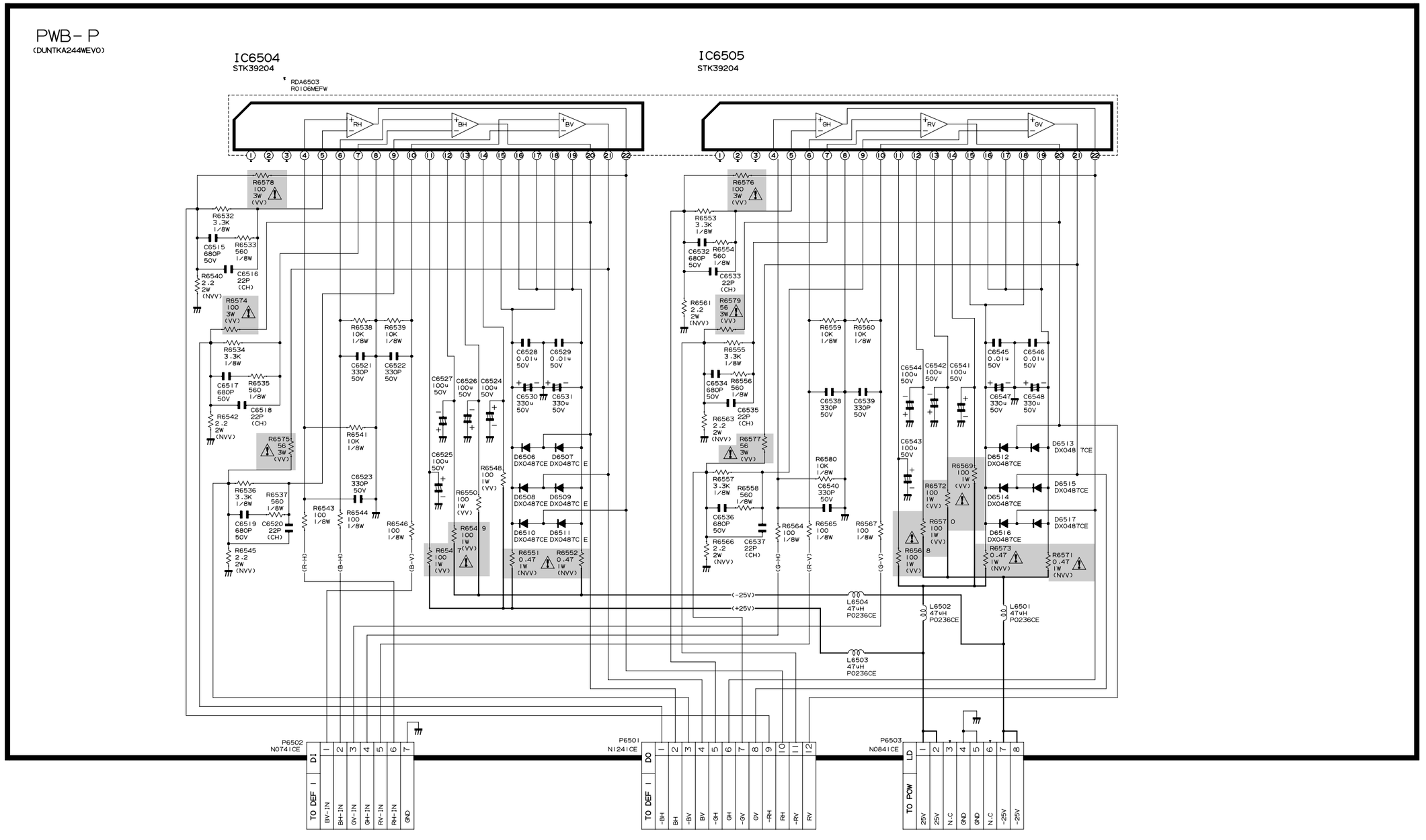
■ SUB POWER UNIT



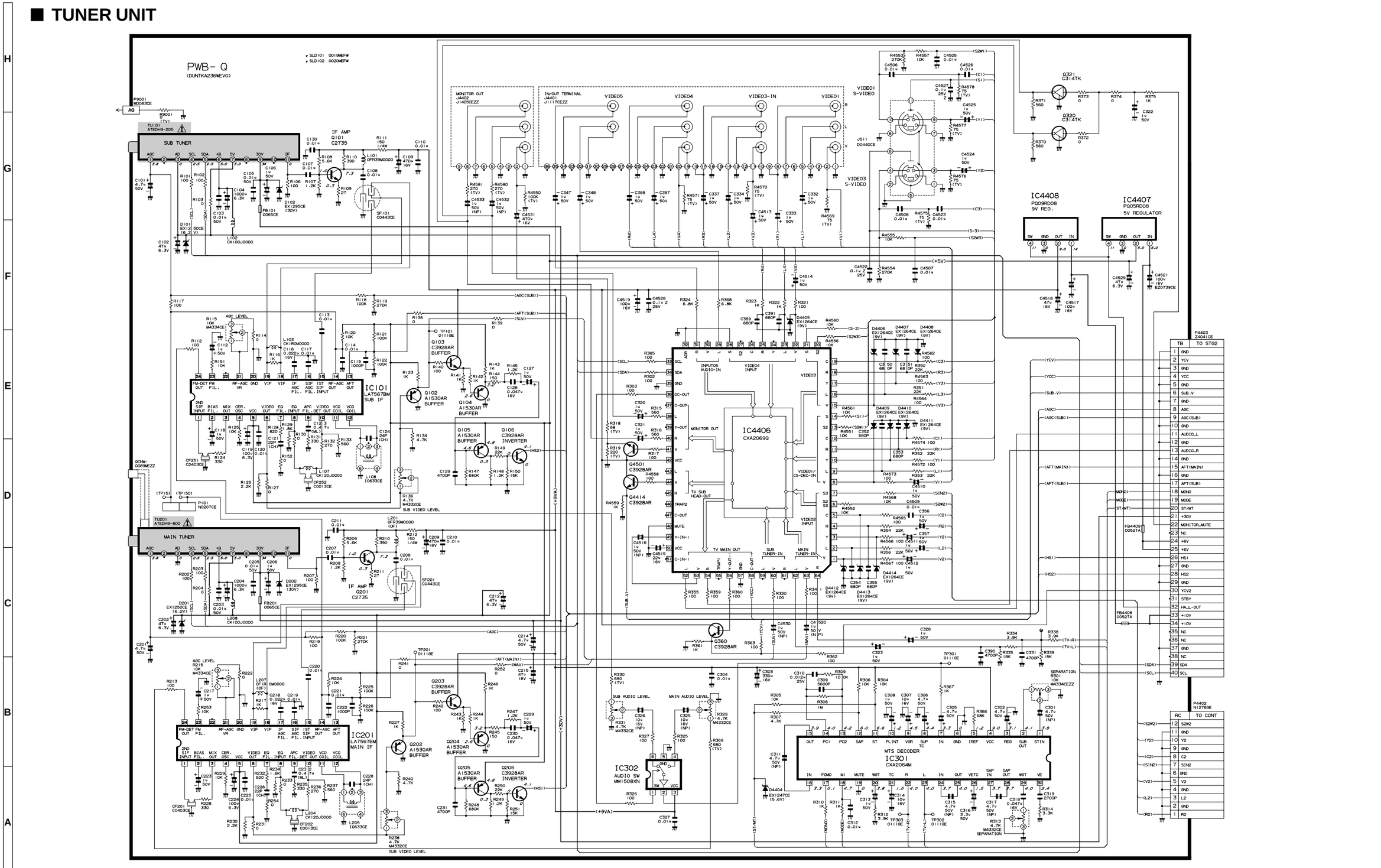
■ CONTROL UNIT



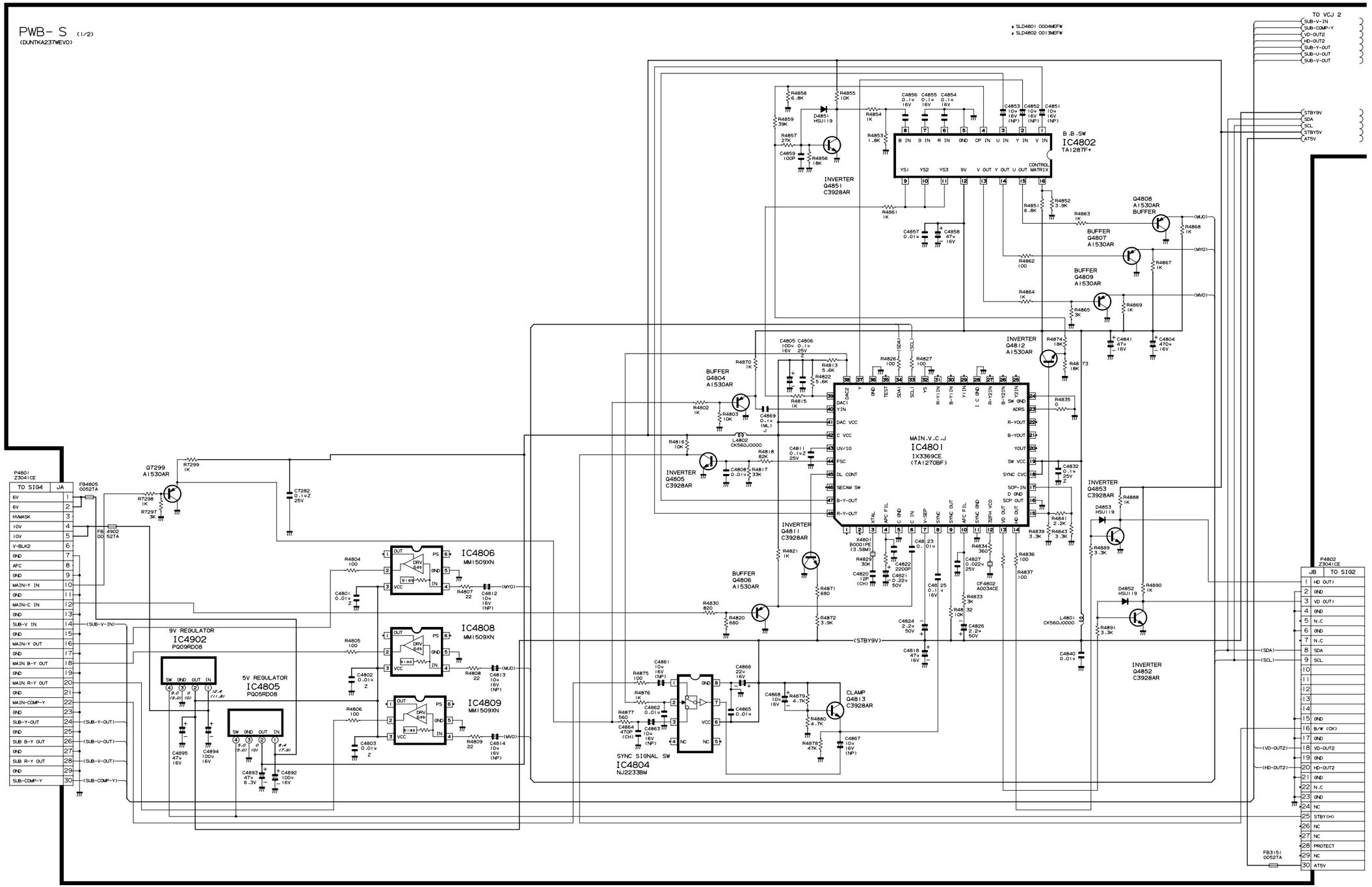
■ CONVERGENCE DRIVER UNIT



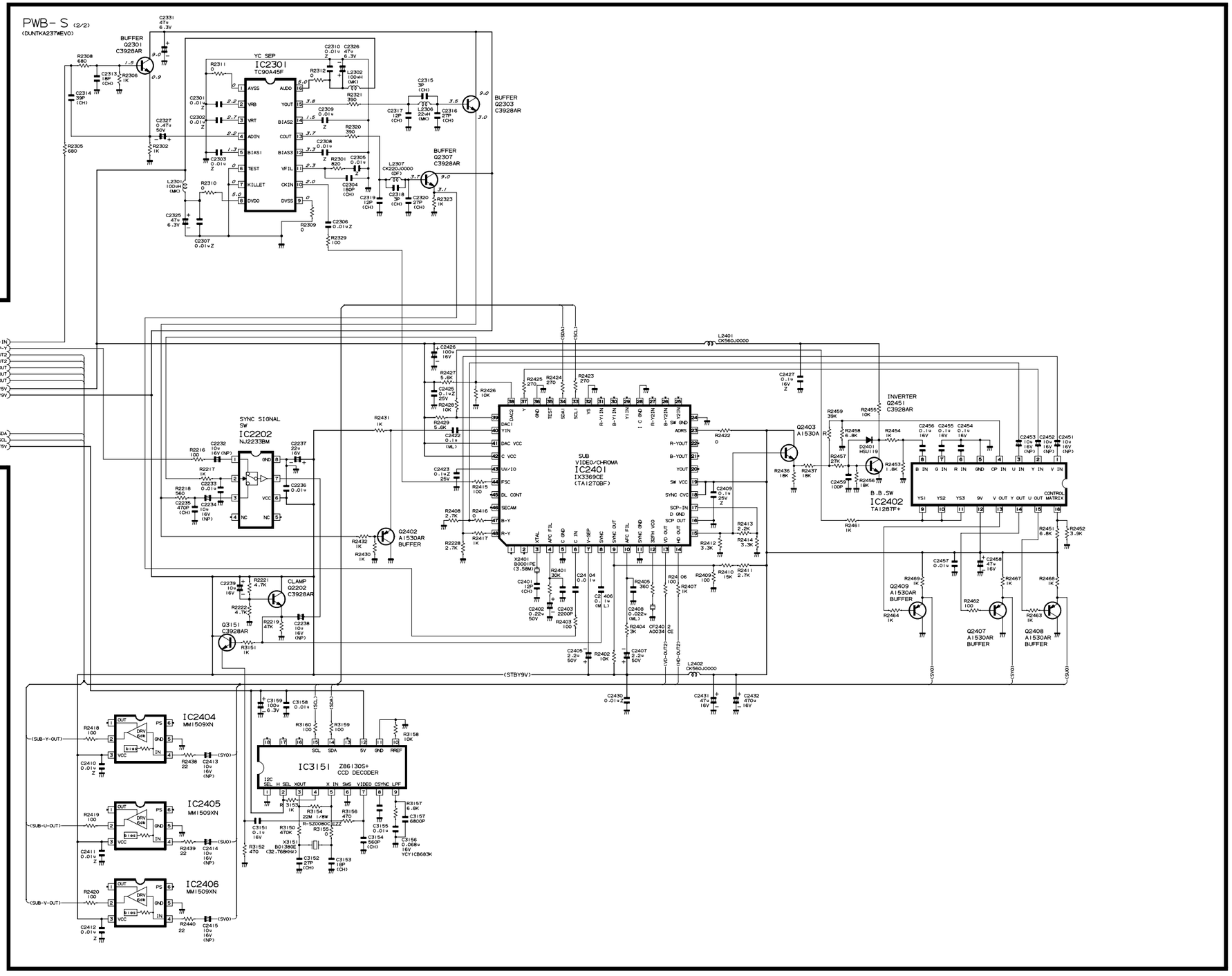
■ TUNER UNIT


PWB- Q
(DUNTKA236WEVO)
SUB TUNER
MAIN TUNER
IC4408
P009RD08
9V REG.
IC4407
P005RD08
5V REGULATOR
IC4406
CXA2069Q
IC201
LA7567BM
MAIN IF
IC101
LA7567BM
SUB IF
IC302
AUDIO SW
MM1508XN
IC301
MTS DECODER
CXA2064M
IF AMP
Q101
C2735
VIDEO1
S-VIDEO
VIDEO3
S-VIDEO
VIDEO5
VIDEO4
VIDEO3-IN
VIDEO1
MONITOR OUT
J4402
J1405EZZ
IN/OUT TERMINAL
J4401
J1117CEZZ
P4403
P4402
TB
TO ST02
RC
TO CONT

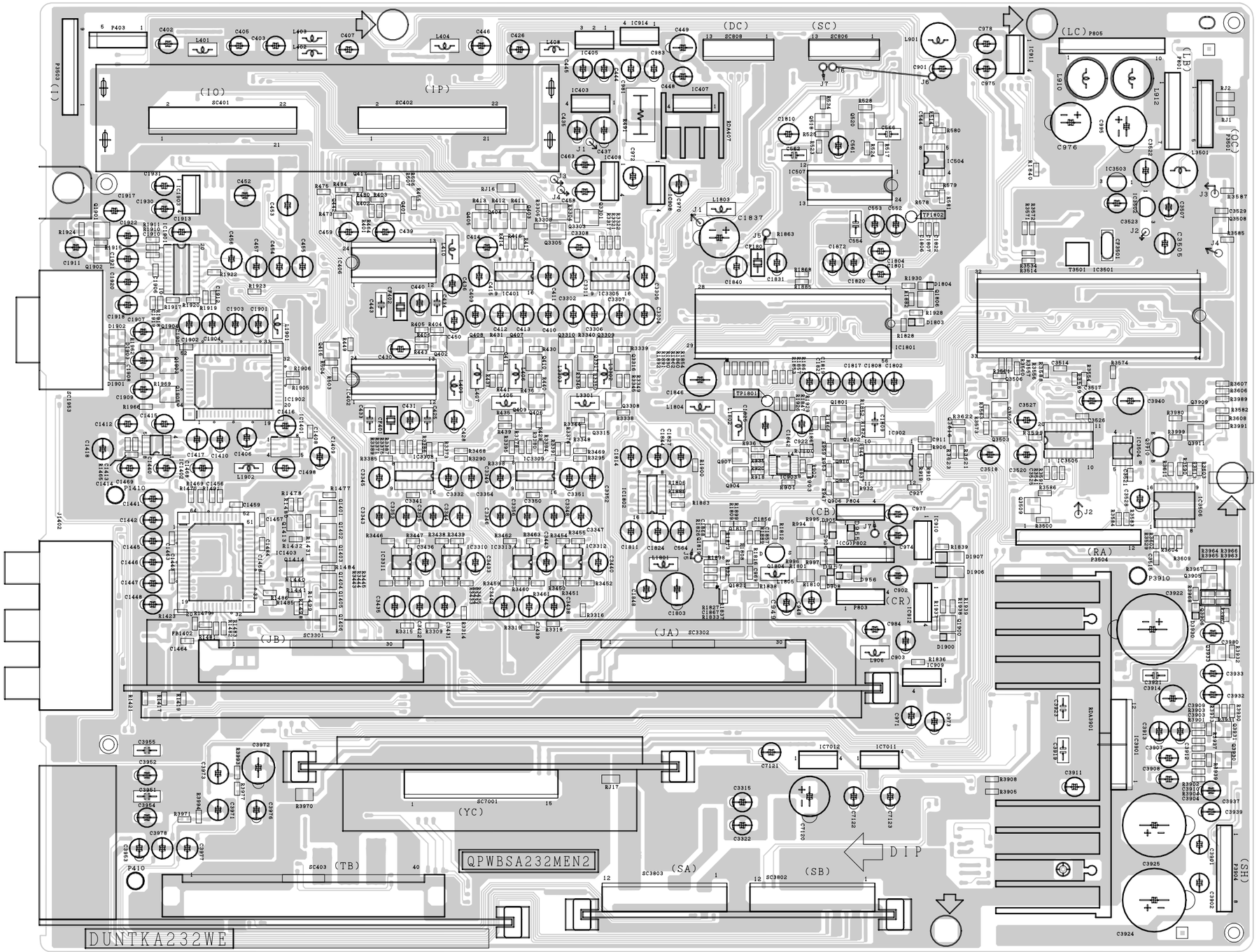
■ VCJ UNIT-1/2


PWB- S (1/2)
(DUNTKA237WEVO)
SLD4801 0004MEFW
SLD4802 0013MEFW
TO VCJ 2
SUB-Y-IN
SUB-COMP-Y
VD-OUT2
HD-OUT2
SUB-Y-OUT
SUB-U-OUT
SUB-V-OUT
STBY9V
SDA
SCL
STBY5V
ATSV
B.B.SW
IC4802
TA1287F+
INVERTER
Q4851
C3928AR
D4851
HSU119
BUFFER
Q4807
A1530AR
Q4808
A1530AR
BUFFER
Q4809
A1530AR
INVERTER
Q4812
A1530AR
BUFFER
Q4804
A1530AR
MAIN.V.C.J
IC4801
IX3369CE
(TA1270BF)
INVERTER
Q4805
C3928AR
INVERTER
Q4811
C3928AR
BUFFER
Q4806
A1530AR
INVERTER
Q4853
C3928AR
INVERTER
Q4852
C3928AR
CLAMP
Q4813
C3928AR
SYNC SIGNAL SW
IC4804
NJ2233BM
Q7299
A1530AR
9V REGULATOR
IC4902
PQ09RD08
5V REGULATOR
IC4805
PQ05RD08
IC4806
MM1509XN
IC4808
MM1509XN
IC4809
MM1509XN
P4801
Z3041CE
TO SIG4
JA
P4802
Z3041CE
JB
TO SIG2
FB4805
0052TA
FB4902
0052TA
FB3151
0052TA
L4802
CK560J0000
L4801
CK560J0000
X4801
B0001PE
(3.58M)
CF4802
A0034CE

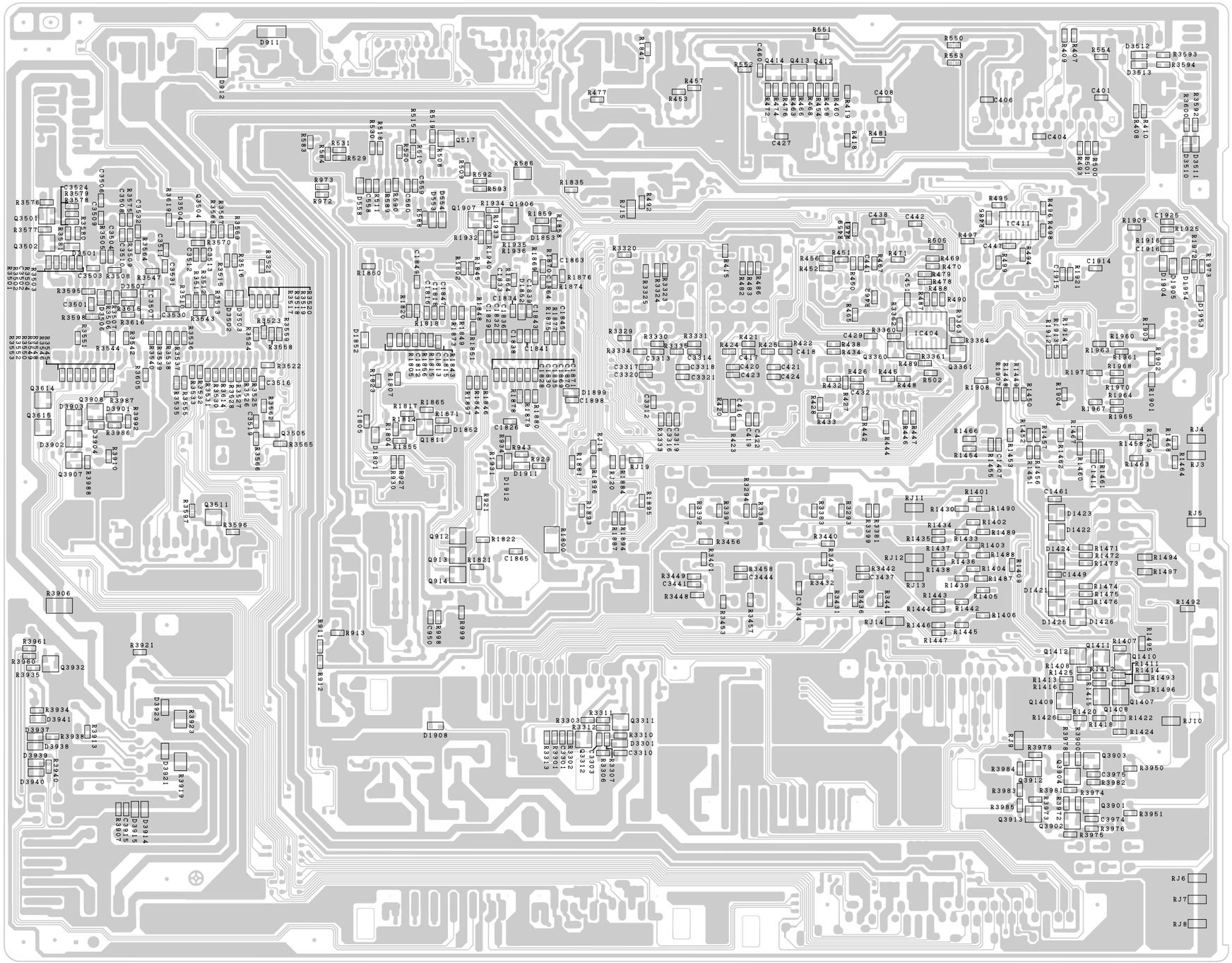
■ VCJ UNIT-2/2


PWB- S (2/2)
(DUNTKA237WEVO)
BUFFER Q2301 C3928AR
YC SEP IC2301 TC90A45F
BUFFER Q2303 C3928AR
BUFFER Q2307 C3928AR
TO VCJ 1
SUB-V-IN
SUB-COMP-Y
VD-OUT2
HD-OUT2
SUB-Y-OUT
SUB-U-OUT
SUB-V-OUT
STBY5V
STBY9V
SDA
SCL
AT5V
SYNC SIGNAL SW IC2202 NJ2233BM
SUB VIDEO/CHROMA IC2401 IX3369CE (TA1270BF)
INVERTER Q2451 C3928AR
Q2403 A1530A
B.B.SW IC2402 TA1287F+
CONTROL MATRIX
Q2402 A1530AR BUFFER
CLAMP Q2202 C3928AR
Q3151 C3928AR
Q2409 A1530AR BUFFER
Q2407 A1530AR BUFFER
Q2408 A1530AR BUFFER
IC2404 MM1509XN
IC2405 MM1509XN
IC2406 MM1509XN
IC3151 Z86130S+ CCD DECODER
X2401 B0001PE (3.58M)
X3151 B0136SE (32.768KHz)
(SUB-Y-OUT)
(SUB-U-OUT)
(SUB-V-OUT)
(SYO)
(SUO)
(SVO)
(STBY9V)
L2401 CK560J0000
L2402 CK560J0000
L2307 CK220J0000 (DP)

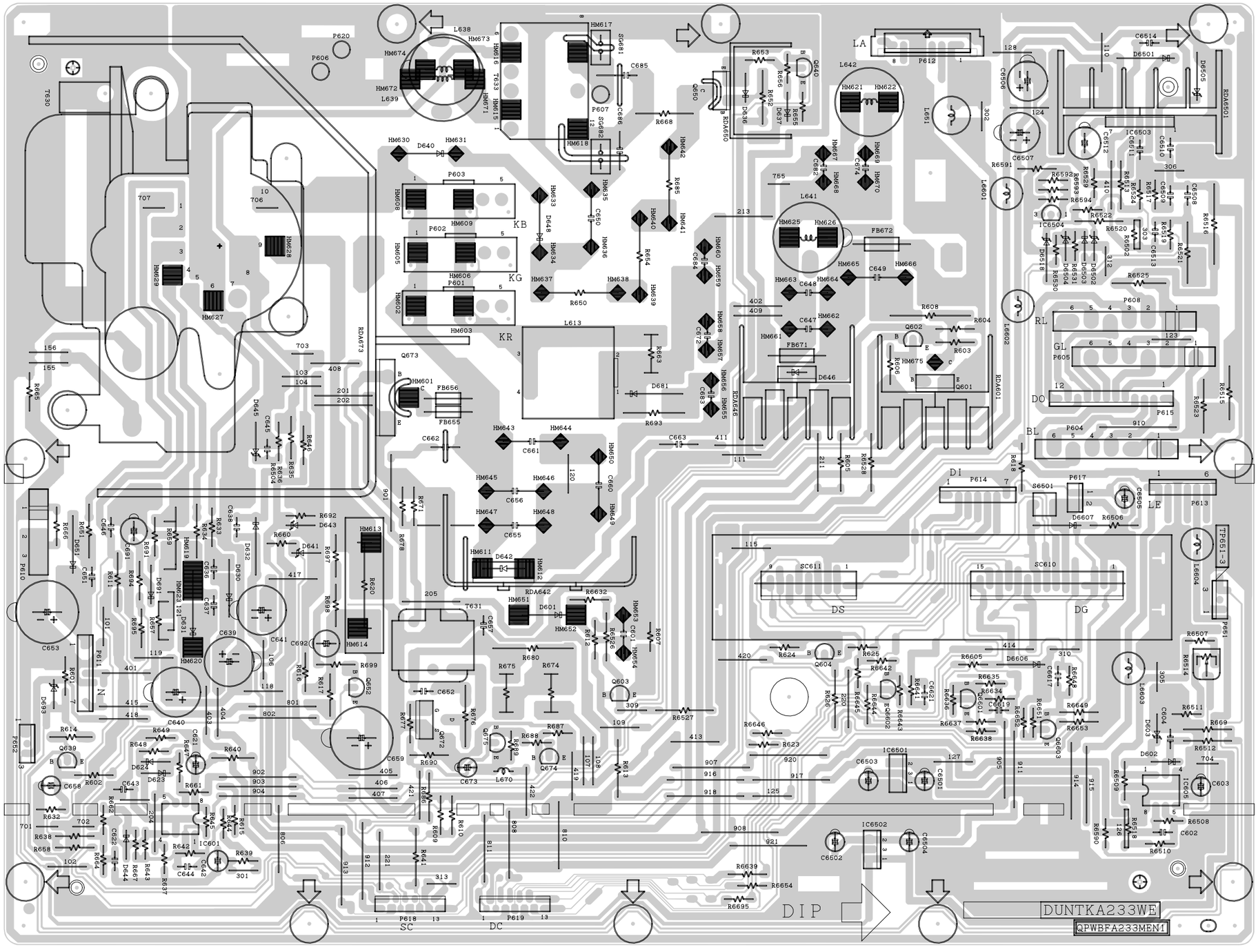
PRINTED WIRING BOARD ASSEMBLIES



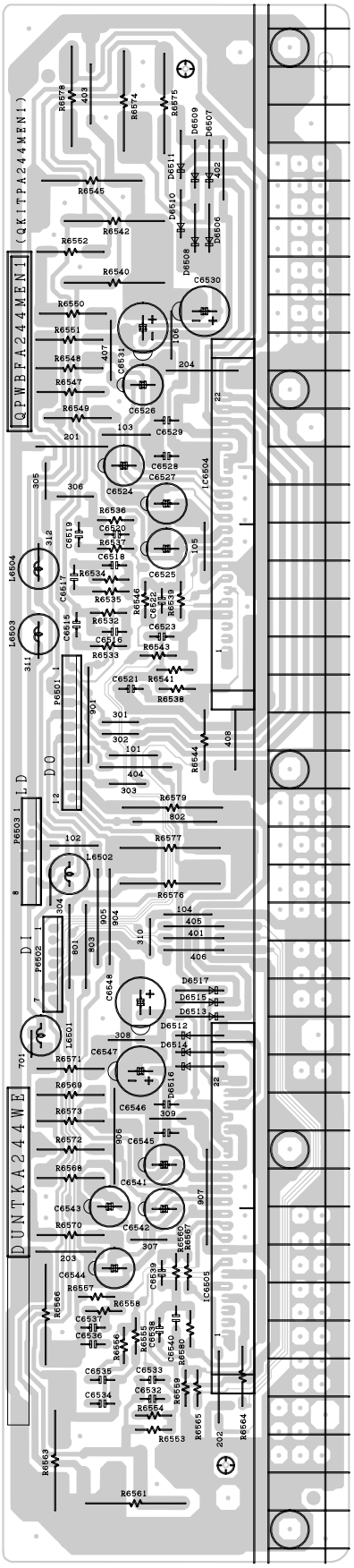
PWB-A: Main Unit (A Side)



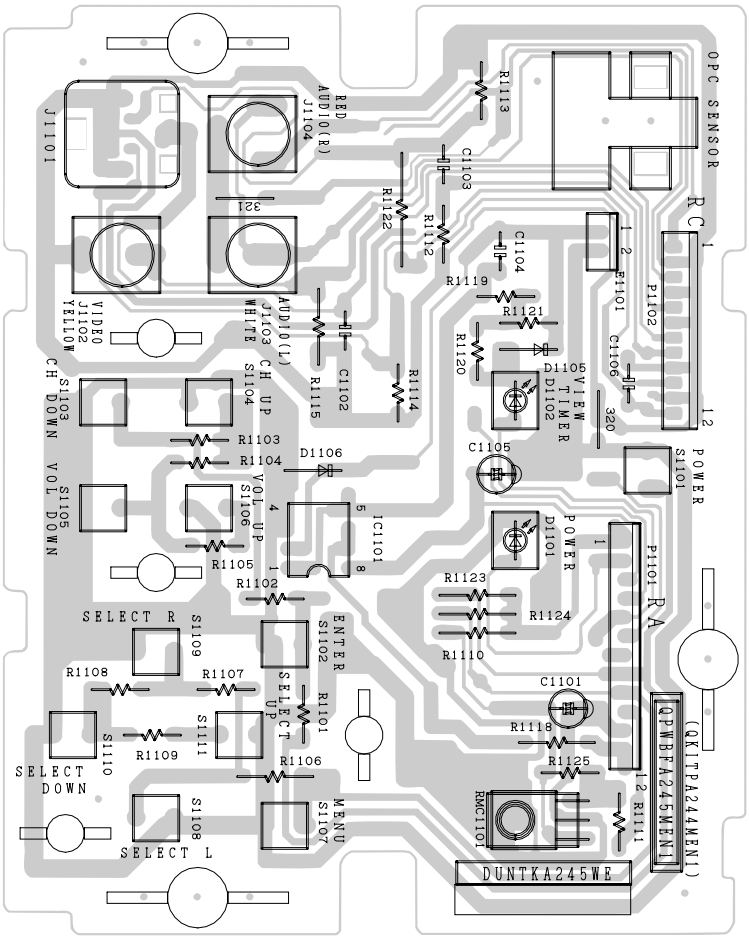
PWB-A: Main Unit (B Side)



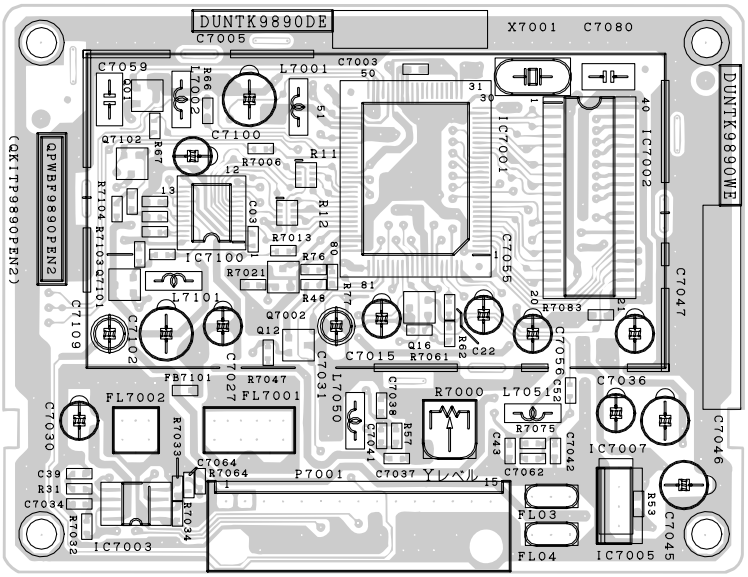
PWB-C: H.V. Unit (Wiring Side)



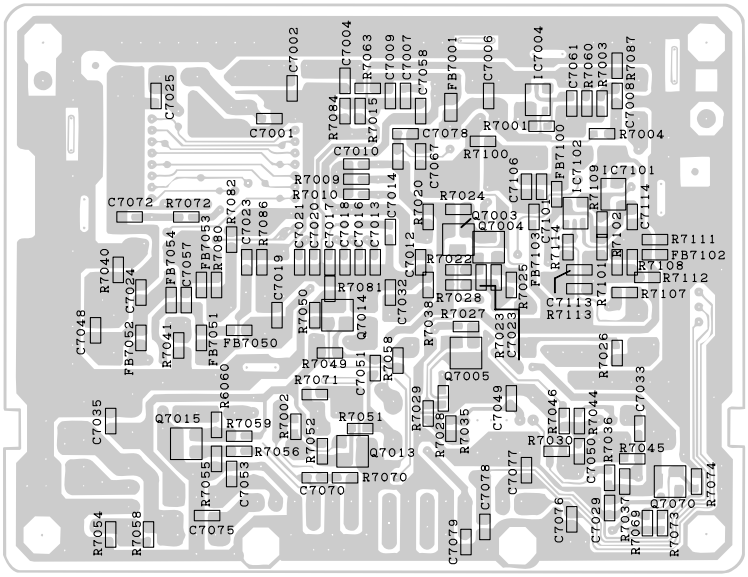
PWB-P: Convergence Driver Unit (Wiring Side)



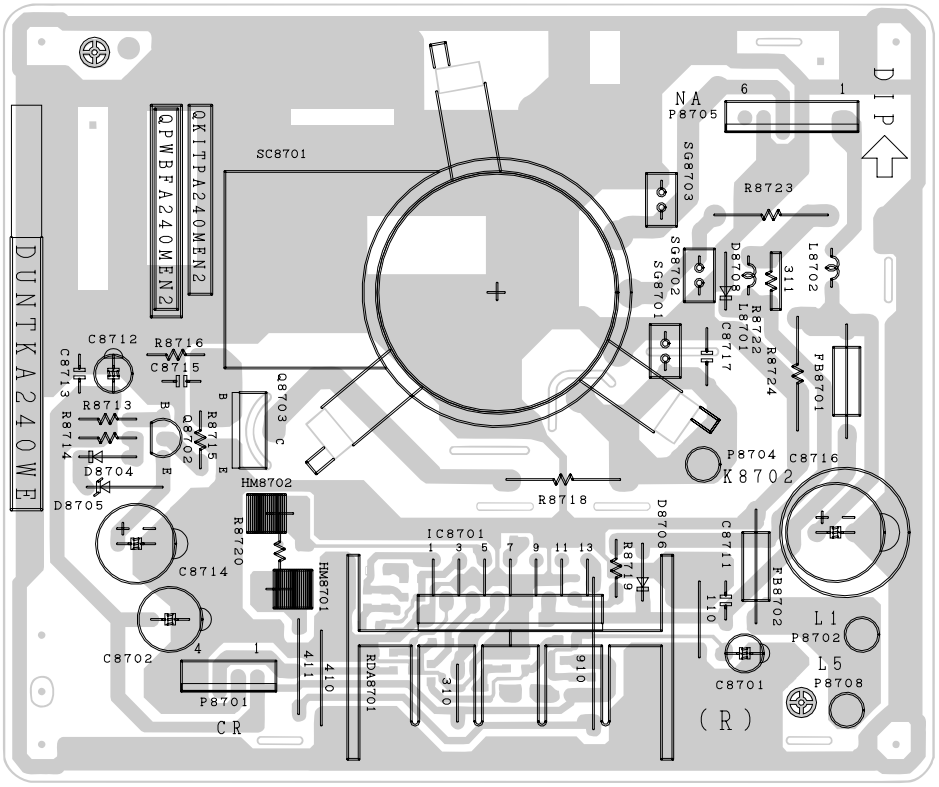
PWB-D: Control Unit (Wiring Side)



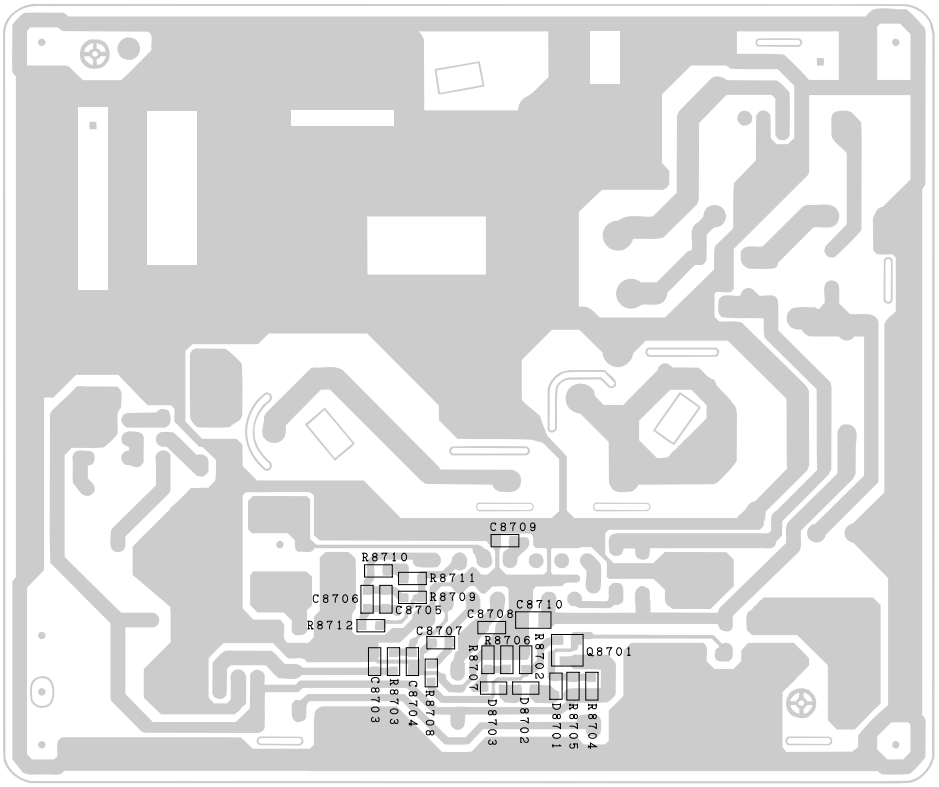
PWB-I: 3D Y/C Separate Unit (A Side)



PWB-I: 3D Y/C Separate Unit (B Side)

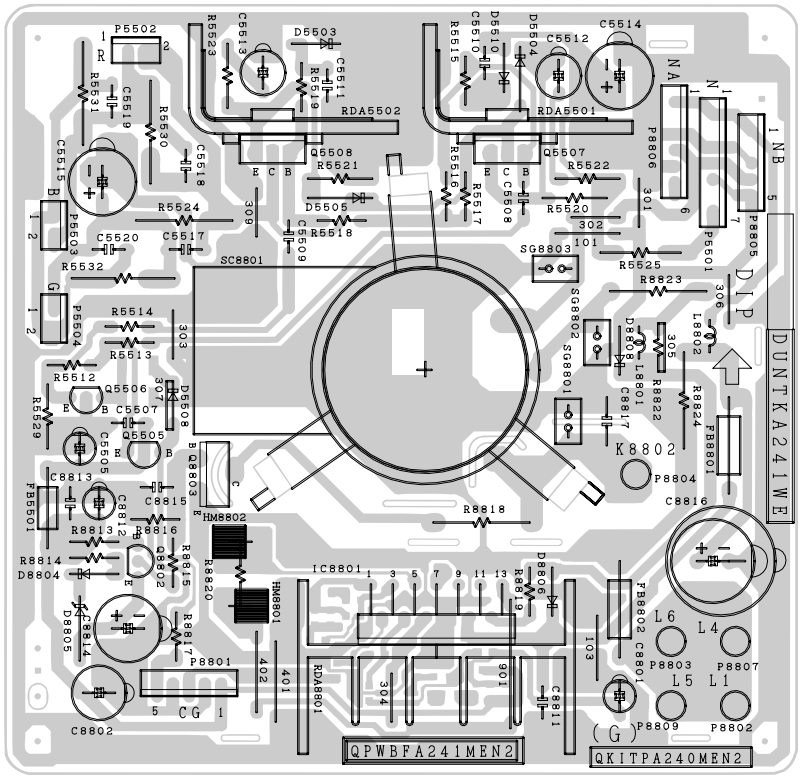


PWB-G: CRT Red Unit (Wiring Side)

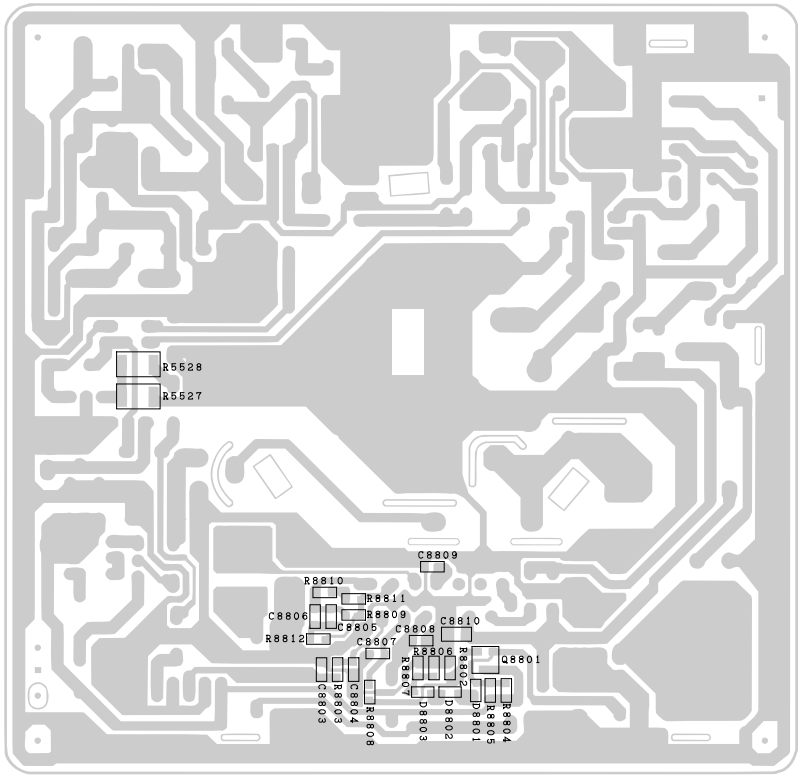


PWB-G: CRT Red Unit (Chip Parts Side)

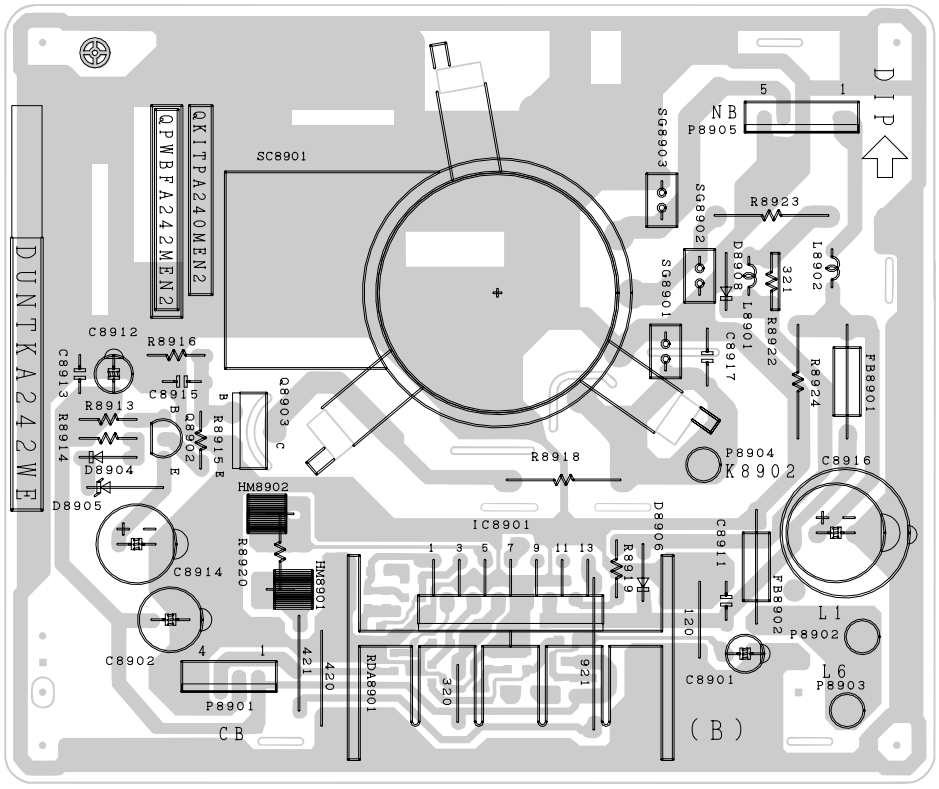
	1	2	3	4	5	6



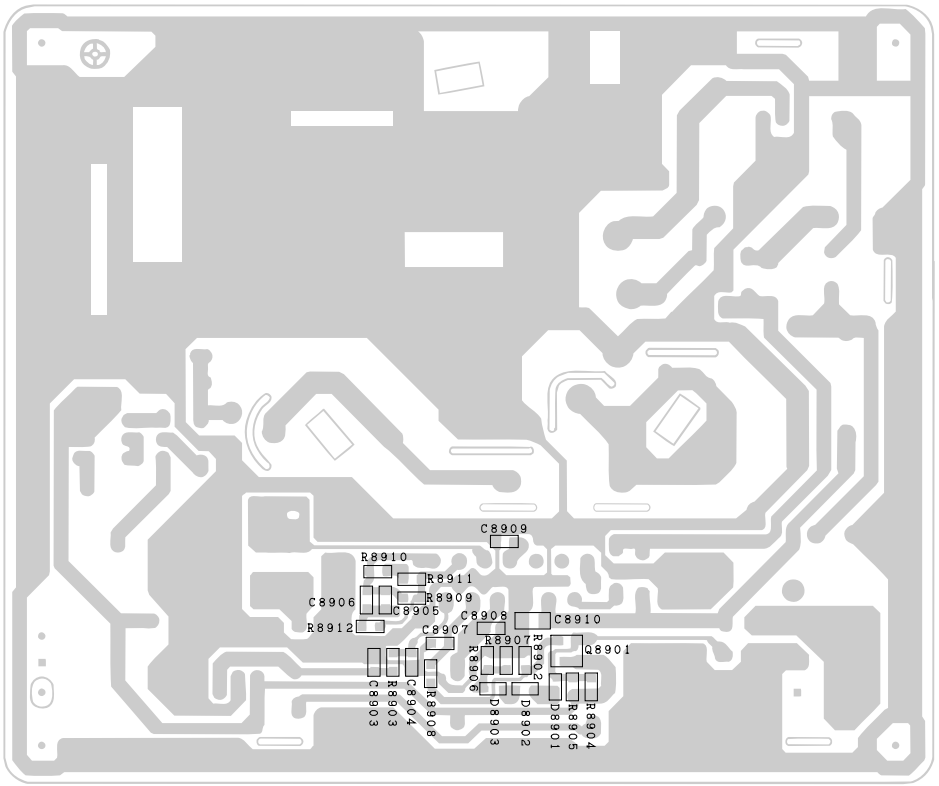
PWB-B: CRT Green Unit (Wiring Side)



PWB-B: CRT Green Unit (Chip Parts Side)

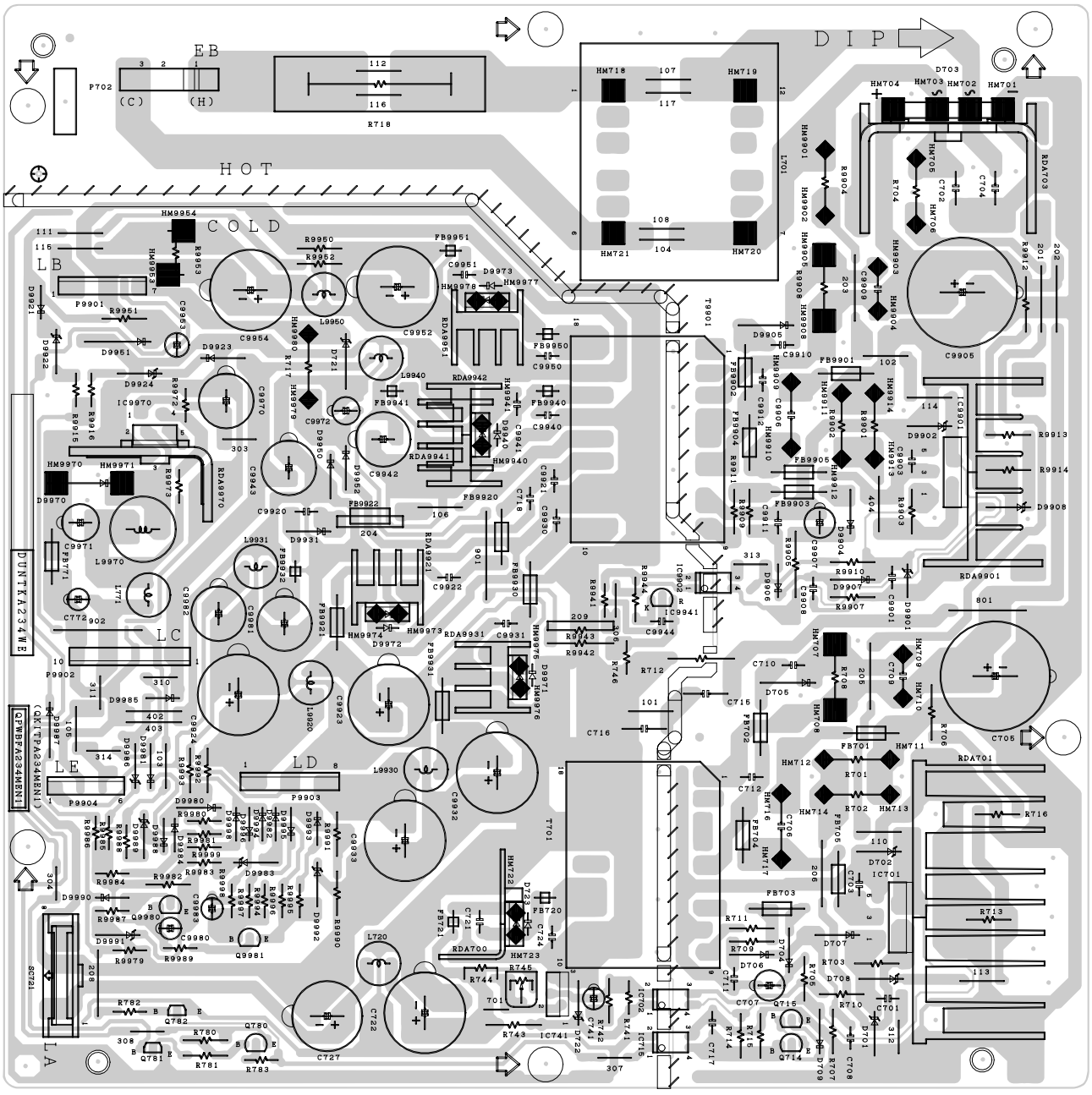


PWB-H: CRT Blue Unit (Wiring Side)

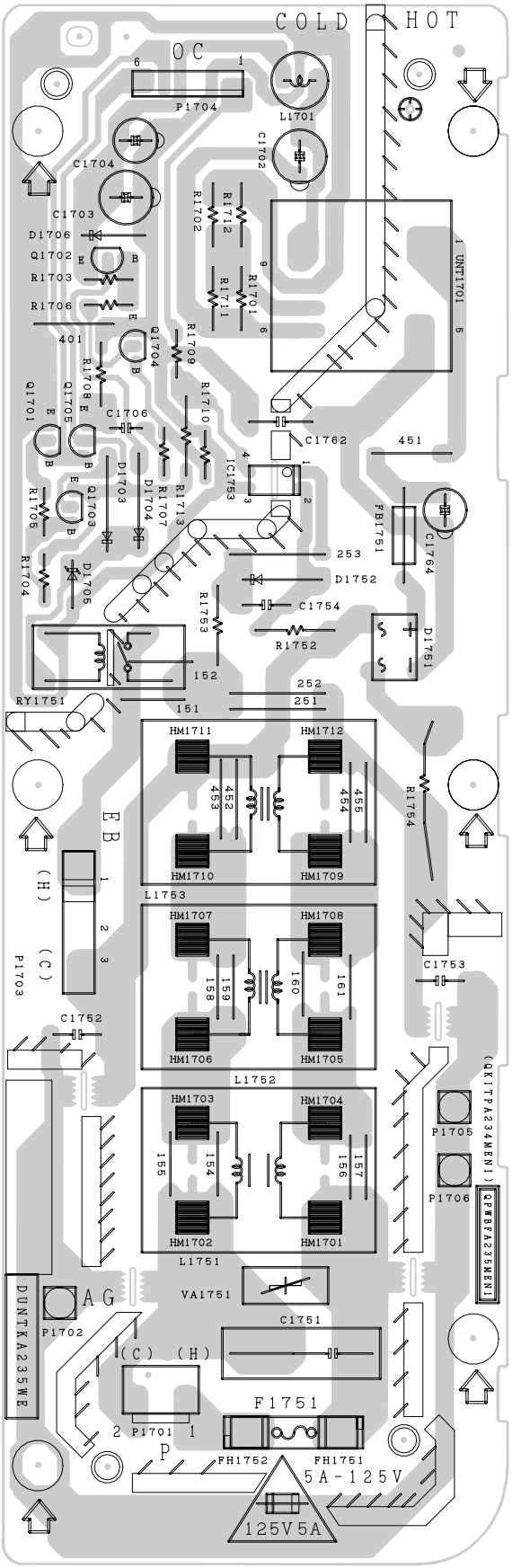


PWB-H: CRT Blue Unit (Chip Parts Side)

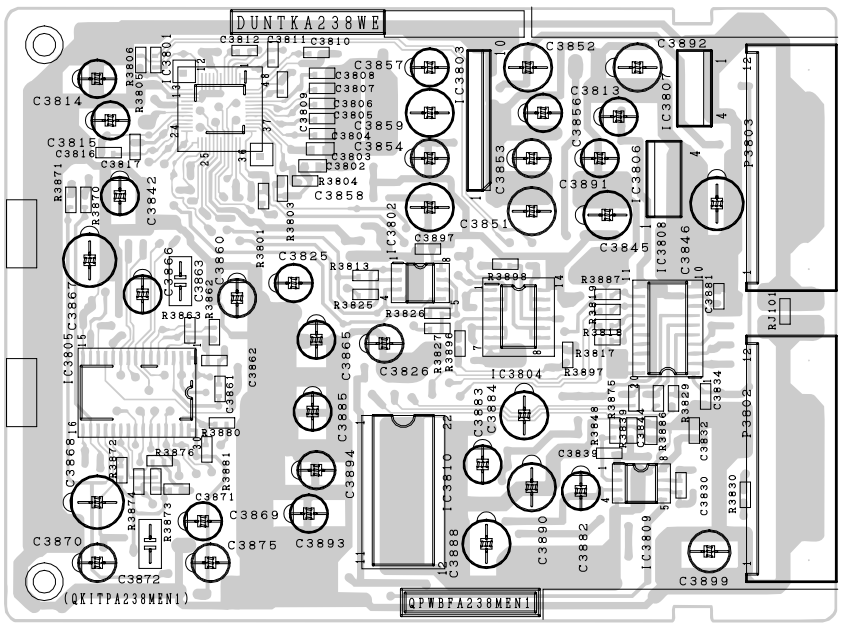
	1	2	3	4	5	6



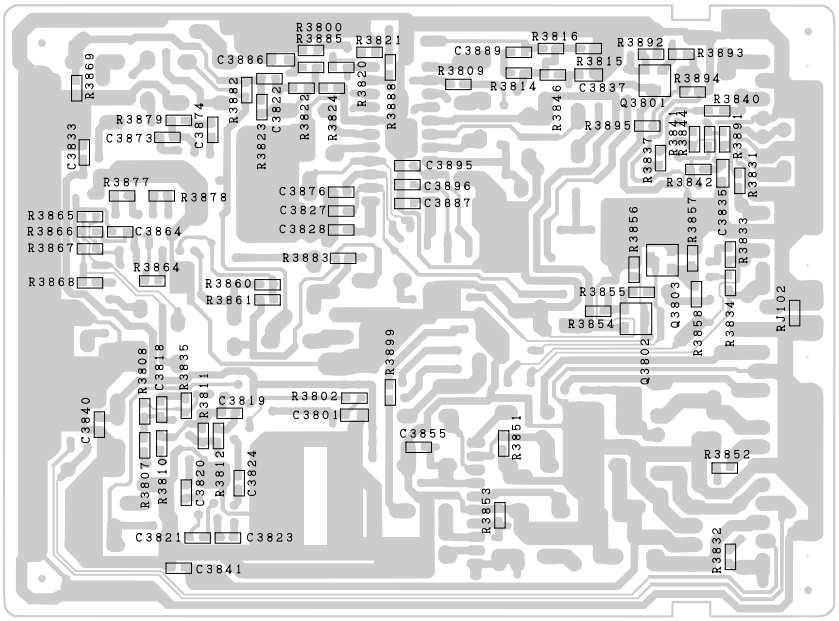
PWB-J: Power Unit (Wiring Side)



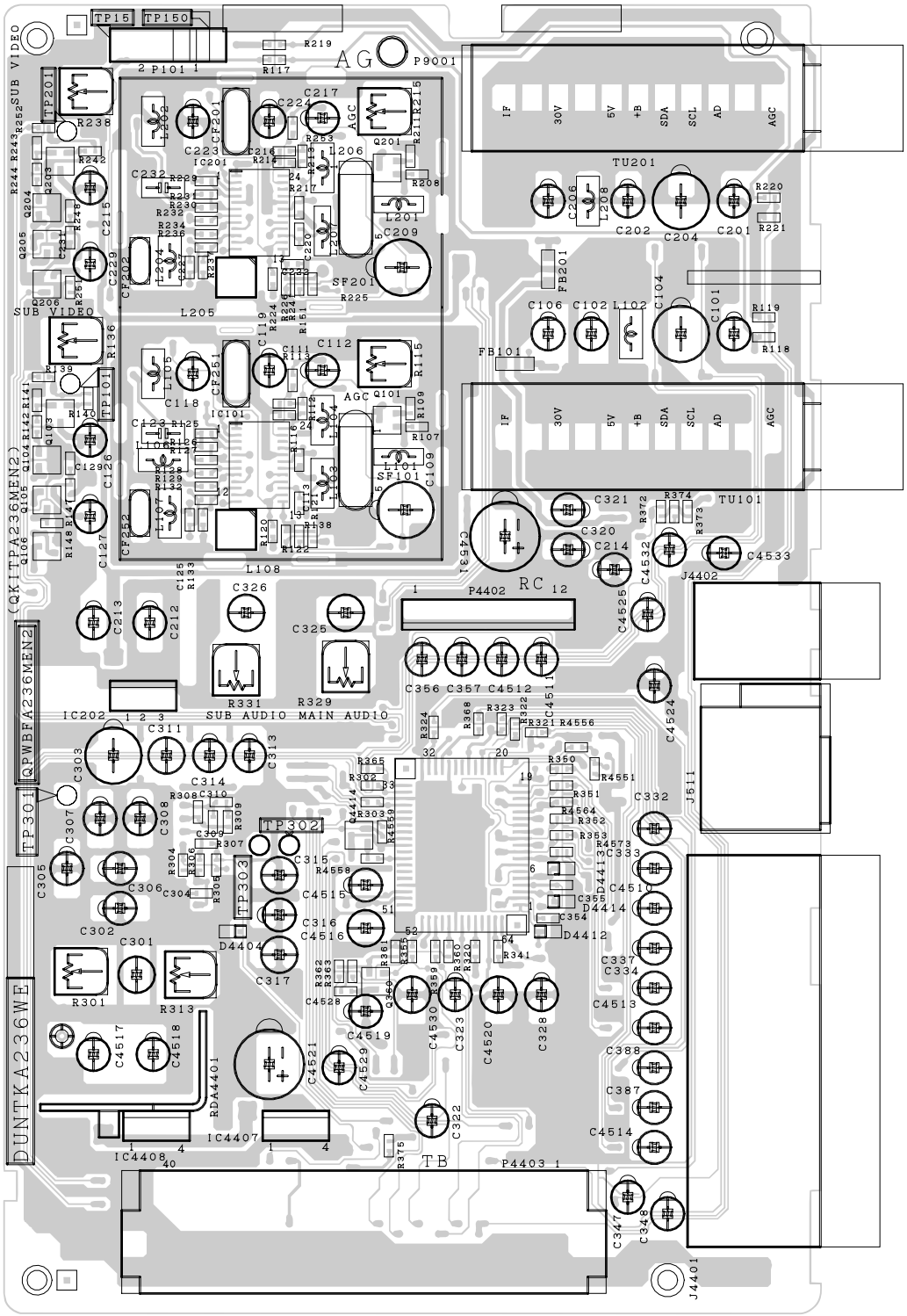
PWB-M: Sub Power Unit (Wiring Side)



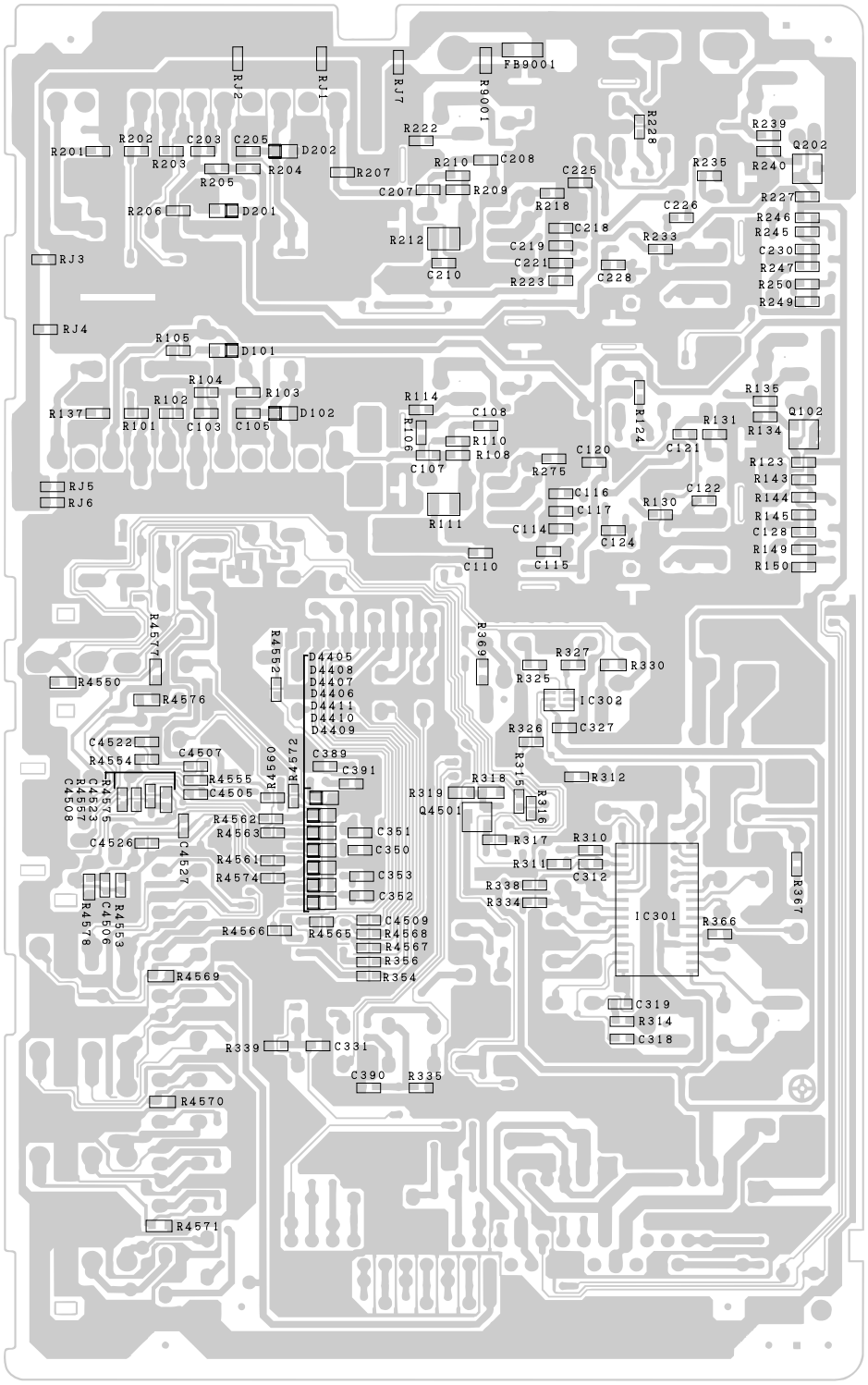
PWB-N: Audio Unit (A Side)



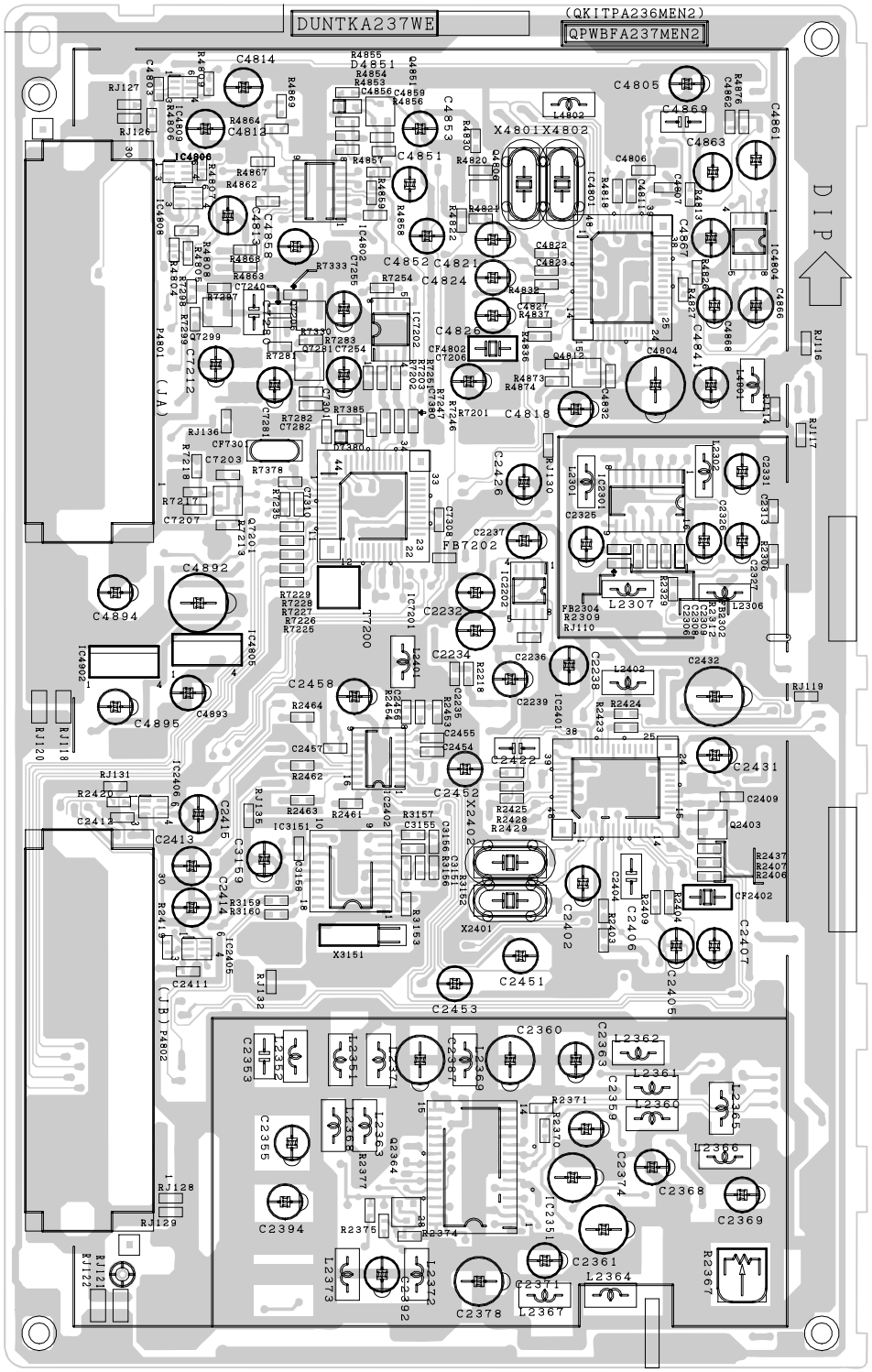
PWB-N: Audio Unit (B Side)



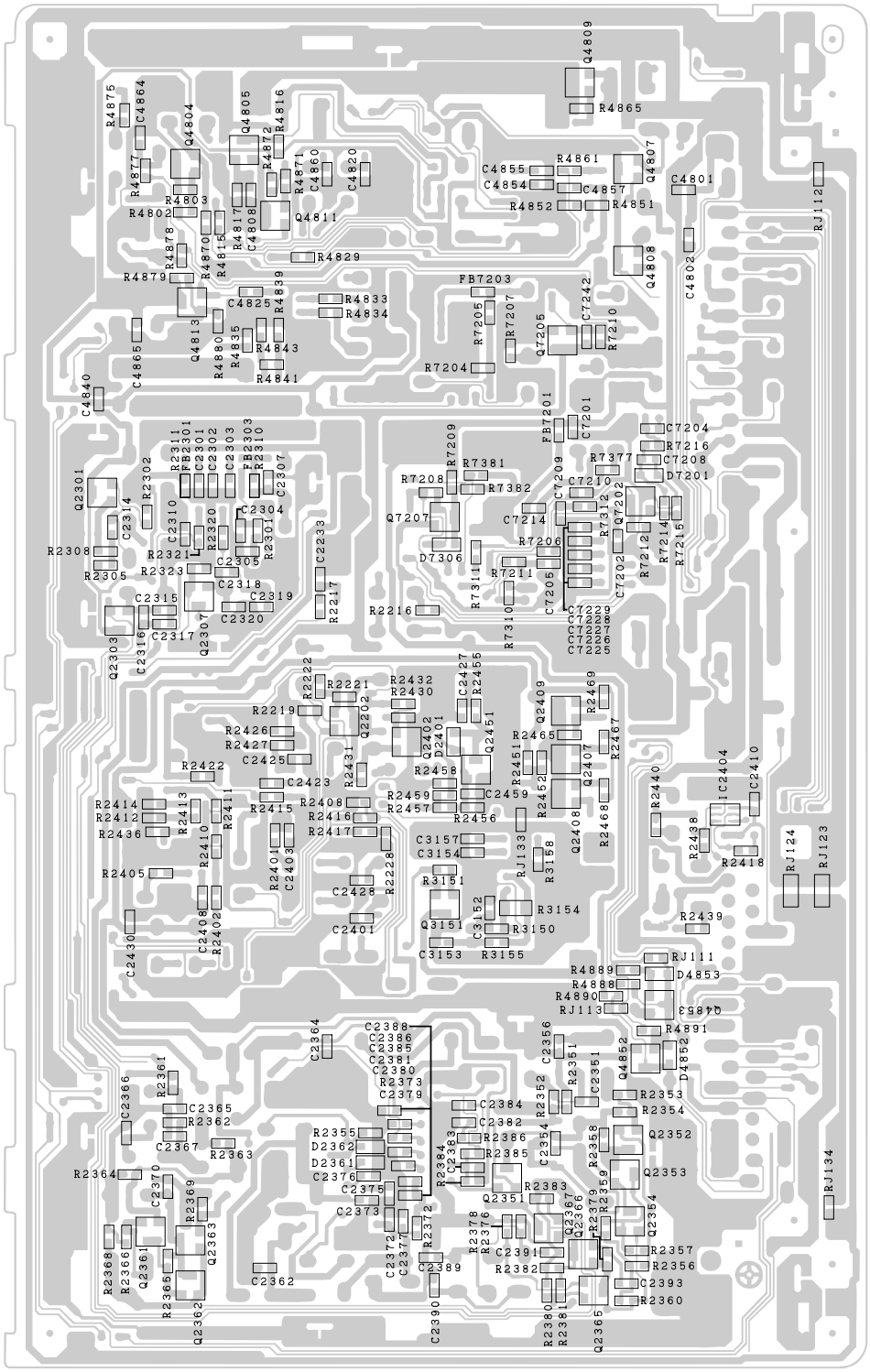
PWB-Q: Tuner Unit (A Side)



PWB-Q: Tuner Unit (B Side)



PWB-S: VCJ Unit (A Side)



PWB-S: VCJ Unit (B Side)

PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual; electrical components having such features are identified by ⚠ and shaded areas in the Replacement Parts Lists and Schematic Diagrams. The use of a substitute replacement part which dose no have the same safety characteristic as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

in **USA**: Contact your nearest SHARP Parts Distributor to order. For location of SHARP Parts Distributor, Please call Toll-Free; 1-800-BE-SHARP

★MARK: SPARE PARTS-DELIVERY SECTION

▲ MARK : X- RAY RELATED PARTS

Ref. No.	Part No.	★	Description	Code
▲⚠	EVB-07010MEV0	M	Coupler Ass'y(R)	CF
▲⚠	EVB-07010MEV1	M	Coupler Ass'y(G)	CF
▲⚠	EVB-07010MEV2	M	Coupler Ass'y(B)	CF
⚠	RCiLH0121MEZZ	M	Deflection Yoke,x3	BB
	PLNS-0012MEZZ	M	Lens,x3	BV
	LANGK0013MEFW	M	CRT Socket Holder,x3	AC
	LHLDZ0107MEKZ	M	CRT PWB Holder,x3	AD
	PMAGF0105CEZZ	M	VM Coil,x3	AP
	QCNW-0310MEZZ	M	Connecting Cord,x3	AM
	LHLDW1002PEZZ	M	Holder,x3	AA
	PLNS-0013MEZZ	M	Filter,x3	AZ
	LX-TZ3022MEFF	M	Screw,x12	AA

PICTURE TUBE

PRINTED WIRING BOARD ASSEMBLIES
(NOT REPLACEMENT ITEM)

	DSETUA232FMV0S	M	Service chassis	DC
PWB-A	DUNTKA232WEV0	–	Main Unit	—
PWB-B	DUNTKA241WEV0	–	CRT Green Unit	—
PWB-C	DUNTKA233WEV0	–	H.V. Unit	—
PWB-D	DUNTKA245WEV0	–	Control Unit	—
PWB-G	DUNTKA240WEV0	–	CRT Red Unit	—
PWB-H	DUNTKA242WEV0	–	CRT Blue Unit	—
PWB-I	DUNTK9890WEW1	–	3D Y/C Separate Unit	—
PWB-J	DUNTKA234WEV0	–	Power Unit	—
PWB-M	DUNTKA235WEV0	–	Sub Power Unit	—
PWB-N	DUNTKA238WEV0	–	Audio Unit	—
PWB-P	DUNTKA244WEV0	–	Convergence Driver Unit	—
PWB-Q	DUNTKA236WEV0	–	Tuner Unit	—
PWB-S	DUNTKA237WEV0	–	VCJ Unit	—
⚠	RUNTZ0101MEZZ	–	H.V. Splitter Unit	—
⚠	RUNTZ0102MEZZ	–	Focus Pack Unit	—

Ref. No.	Part No.	★	Description	Code

PWB-A: DUNTKA232WEV0
MAIN UNIT

UNIT

UNT401	RUNTK0687CEN3	J	IP Unit	

INTEGRATED CIRCUITS

IC401	VHiM52055FP-1	J	M52055FP	AH
IC402	VHiTA1318N/-1	M	TA1318N	AS
IC403	VHiPQ30VB11-1	J	PQ30VB11	AH
IC404	VHiTHC4066F-1	J	TC74HC4066AF	AD
IC405	VHiBA033T//-1	J	BA033T	AF
IC406	VHiTA1318N/-1	M	TA1318N	AS
IC407	VHiPQ05RD08-1	J	PQ05RD08	AF
IC408	VHiPQ09RD08-1	J	PQ09RD08	AF
IC411	VHiM52055FP-1	J	M52055FP	AH
IC507	VHiTA1241AN-1	J	TA1241AN	AM
IC902	VHiM62393FP-1	J	M62393FP	AK
IC903	VHiMMHCT32F-1	J	MM74HCT32MTCX	AD
IC908	VHiPQ09RD08-1	J	PQ09RD08	AF
IC909	VHiPQ09RD08-1	J	PQ09RD08	AF
IC910	VHiPQ12RD11-1	J	PQ12RD11	AG
IC911	VHiPQ09RD08-1	J	PQ09RD08	AF
IC912	VHiPQ20VB1E-1	J	PQ20VB1E	AH
IC914	VHiPQ05RD08-1	J	PQ05RD08	AF
IC1401	VHiTK15420/-1	J	TK15420MTl	AG
IC1402	VHiTK15420/-1	J	TK15420MTl	AG
IC1403	VHiMM1519XQ-1	J	MM1519XQ	AW
IC1801	RH-iX3432CEZZ	J	TA1316AN	BC
IC1802	VHiM52055FP-1	J	M52055FP	AH
IC1901	VHiM52347FP-1	J	M52347FP	AP
IC1902	VHiCXA2011Q-1	J	CXA2011Q	AY
IC1903	VHiPQ05RD08-1	M	PQ05RD08	AC
IC3305	VHiM52055FP-1	J	M52055FP	AH
IC3308	VHiM52055FP-1	J	M52055FP	AH
IC3309	VHiM52055FP-1	J	M52055FP	AH
IC3501	RH-iX3437CEZZ	M	M30V5EESP	BM
IC3502	VHiM51943BS-1	J	M51943BSl	AP
IC3503	VHiS81350HG-1	J	S-81350HG	AF
IC3504	VHiBR2416E2-1Y	J	BQ24C16F-E2	AK
IC3505	VHiM62393FP-1	J	M62393FP	AK
IC3507	VHiBR2416E2-1Y	J	BQ24C16F-E2	AK
IC3901	VHiTA8216H/-1	J	TA8216H	AN
IC7011	VHiPQ09RD08-1	J	PQ09RD08	AF
IC7012	VHiPQ05RD08-1	J	PQ05RD08	AF

TRANSISTORS

Q401	VS2SC3928AR-1	J	2SC3928AR	AB
Q402	VS2SC3928AR-1	J	2SC3928AR	AB
Q403	VS2SC3928AR-1	J	2SC3928AR	AB
Q404	VS2SC3928AR-1	J	2SC3928AR	AB
Q405	VS2SC3928AR-1	J	2SC3928AR	AB
Q406	VS2SC3928AR-1	J	2SC3928AR	AB
Q407	VS2SC3928AR-1	J	2SC3928AR	AB
Q408	VS2SC3928AR-1	J	2SC3928AR	AB
Q409	VS2SA1530AR-1	J	2SA1530AR	AB
Q410	VS2SA1530AR-1	J	2SA1530AR	AB
Q411	VS2SA1530AR-1	J	2SA1530AR	AB
Q412	VS2SC3928AR-1	J	2SC3928AR	AB
Q413	VS2SC3928AR-1	J	2SC3928AR	AB
Q414	VS2SC3928AR-1	J	2SC3928AR	AB
Q416	VS2SC3928AR-1	J	2SC3928AR	AB
Q417	VS2SC3928AR-1	J	2SC3928AR	AB
Q517	VS2SC3928AR-1	J	2SC3928AR	AB
Q518	VS2SC3928AR-1	J	2SC3928AR	AB
Q520	VS2SC3928AR-1	J	2SC3928AR	AB
Q904	VS2SC3928AR-1	J	2SC3928AR	AB
Q907	VS2SC3928AR-1	J	2SC3928AR	AB
Q912	VS2SA1530AR-1	J	2SA1530AR	AB
Q913	VS2SA1530AR-1	J	2SA1530AR	AB
Q914	VS2SA1530AR-1	J	2SA1530AR	AB
Q1401	VS2SC3928AR-1	J	2SC3928AR	AB
Q1402	VS2SC3928AR-1	J	2SC3928AR	AB
Q1403	VS2SC3928AR-1	J	2SC3928AR	AB

PWB-A: DUNTKA232WEV0

MAIN UNIT(Continued)

Ref. No.	Part No.	★	Description	Code
Q1404	VS2SC3928AR-1	J	2SC3928AR	AB
Q1405	VS2SC3928AR-1	J	2SC3928AR	AB
Q1406	VS2SC3928AR-1	J	2SC3928AR	AB
Q1407	VS2SA1530AR-1	J	2SA1530AR	AB
Q1408	VS2SA1530AR-1	J	2SA1530AR	AB
Q1409	VS2SA1530AR-1	J	2SA1530AR	AB
Q1410	VS2SC3928AR-1	J	2SC3928AR	AB
Q1411	VS2SC3928AR-1	J	2SC3928AR	AB
Q1412	VS2SC3928AR-1	J	2SC3928AR	AB
Q1413	VS2SA1530AR-1	J	2SA1530AR	AB
Q1414	VS2SA1530AR-1	J	2SA1530AR	AB
Q1801	VS2SC3928AR-1	J	2SC3928AR	AB
Q1802	VS2SC3928AR-1	J	2SC3928AR	AB
Q1806	VS2SC3928AR-1	J	2SC3928AR	AB
Q1811	VS2SA1530AR-1	J	2SA1530AR	AB
Q1815	VS2SC3928AR-1	J	2SC3928AR	AB
Q1819	VS2SC3928AR-1	J	2SC3928AR	AB
Q1821	VS2SC3928AR-1	J	2SC3928AR	AB
Q1901	VS2SC3928AR-1	J	2SC3928AR	AB
Q1902	VS2SC3928AR-1	J	2SC3928AR	AB
Q1903	VS2SC3928AR-1	J	2SC3928AR	AB
Q1904	VS2SC3928AR-1	J	2SC3928AR	AB
Q1905	VS2SC3928AR-1	J	2SC3928AR	AB
Q1906	VS2SC3928AR-1	J	2SC3928AR	AB
Q1907	VS2SA1530AR-1	J	2SA1530AR	AB
Q3301	VS2SC3928AR-1	J	2SC3928AR	AB
Q3303	VS2SC3928AR-1	J	2SC3928AR	AB
Q3305	VS2SC3928AR-1	J	2SC3928AR	AB
Q3308	VS2SC3928AR-1	J	2SC3928AR	AB
Q3309	VS2SC3928AR-1	J	2SC3928AR	AB
Q3310	VS2SC3928AR-1	J	2SC3928AR	AB
Q3315	VS2SA1530AR-1	J	2SA1530AR	AB
Q3316	VS2SA1530AR-1	J	2SA1530AR	AB
Q3317	VS2SA1530AR-1	J	2SA1530AR	AB
Q3360	VS2SA1530AR-1	J	2SA1530AR	AB
Q3361	VS2SC3928AR-1	J	2SC3928AR	AB
Q3501	VS2SC3928AR-1	J	2SC3928AR	AB
Q3502	VS2SC3928AR-1	J	2SC3928AR	AB
Q3503	VS2SC3928AR-1	J	2SC3928AR	AB
Q3504	VS2SC3928AR-1	J	2SC3928AR	AB
Q3505	VS2SA1530AR-1	J	2SA1530AR	AB
Q3506	VS2SC3928AR-1	J	2SC3928AR	AB
Q3507	VS2SC3928AR-1	J	2SC3928AR	AB
Q3508	VS2SC3928AR-1	J	2SC3928AR	AB
Q3509	VS2SC3928AR-1	J	2SC3928AR	AB
Q3511	VS2SC3928AR-1	J	2SC3928AR	AB
Q3614	VS2SC3928AR-1	J	2SC3928AR	AB
Q3615	VS2SC3928AR-1	J	2SC3928AR	AB
Q3616	VS2SC3928AR-1	J	2SC3928AR	AB
Q3901	VS2SC3928AR-1	J	2SC3928AR	AB
Q3902	VS2SC3928AR-1	J	2SC3928AR	AB
Q3903	VS2SC3928AR-1	J	2SC3928AR	AB
Q3904	VS2SC3928AR-1	J	2SC3928AR	AB
Q3905	VS2SA1530AR-1	J	2SA1530AR	AB
Q3906	VS2SC3928AR-1	J	2SC3928AR	AB
Q3907	VS2SA1530AR-1	J	2SA1530AR	AB
Q3908	VS2SA1530AR-1	J	2SA1530AR	AB
Q3909	VS2SC3928AR-1	J	2SC3928AR	AB
Q3910	VS2SA950-Y/1E	J	2SA950-Y	AD
Q3911	VS2SC3928AR-1	J	2SC3928AR	AB
Q3912	VS2SC3928AR-1	J	2SC3928AR	AB
Q3913	VS2SC3928AR-1	J	2SC3928AR	AB
Q3930	VSDTC314TK/-1	J	DTC314TK	AC
Q3931	VSDTC314TK/-1	J	DTC314TK	AC
Q3932	VS2SC3928AR-1	J	2SC3928AR	AB
Q3933	VS2SC3928AR-1	J	2SC3928AR	AB

DIODES

D553	RH-EX1249CEZZ	J	Zener Diode	AB
D554	RH-EX1249CEZZ	J	Zener Diode	AB
D558	RH-EX1250CEZZ	J	Zener Diode	AB
D905	VHDHSU119//-1	J	Diode	AB
D906	VHDHSU119//-1	J	Diode	AB
D908	VHDHSU119//-1	J	Diode	AB
D911	VHDD1F60///-1	J	Diode	AC
D912	VHDD1F60///-1	J	Diode	AC
D955	VHDHSU119//-1	J	Diode	AB
D956	VHDHSU119//-1	J	Diode	AB
D957	VHDHSU119//-1	J	Diode	AB
D1421	VHD1SS226//-1	J	Diode	AB
D1422	VHD1SS226//-1	J	Diode	AB
D1423	VHD1SS226//-1	J	Diode	AB
D1424	VHD1SS226//-1	J	Diode	AB
D1425	VHD1SS226//-1	J	Diode	AB
D1426	VHD1SS226//-1	J	Diode	AB
D1801	VHDHSU119//-1	J	Diode	AB
D1803	VHDHSU119//-1	J	Diode	AB
D1804	VHDHSU119//-1	J	Diode	AB
D1805	VHDHSU119//-1	J	Diode	AB
D1851	RH-EX1231CEZZ	M	Zener Diode	
D1852	RH-EX1259CEZZ	J	Zener Diode	AB
D1853	RH-EX1264CEZZ	J	Zener Diode	AB
D1899	RH-EX1224CEZZ	J	Zener Diode	AB
D1901	VHD1SS226//-1	J	Diode	AB
D1902	VHD1SS226//-1	J	Diode	AB
D1903	VHD1SS226//-1	J	Diode	AB
D1904	VHDHSU119//-1	J	Diode	AB
D1905	VHDHSU119//-1	J	Diode	AB
D1906	VHDD1F60///-1	J	Diode	AC
D1907	VHDD1F60///-1	J	Diode	AC
D1908	VHDHSU119//-1	J	Diode	AB
D1911	VHDHSU119//-1	J	Diode	AB
D1912	VHDHSU119//-1	J	Diode	AB
D1953	VHDHSU119//-1	J	Diode	AB
D1954	VHDHSU119//-1	J	Diode	AB
D3501	VHDHSU119//-1	J	Diode	AB
D3502	RH-EX1249CEZZ	J	Zener Diode	AB
D3503	RH-EX1249CEZZ	J	Zener Diode	AB
D3504	VHDHSU119//-1	J	Diode	AB
D3506	RH-EX1249CEZZ	J	Zener Diode	AB
D3507	RH-EX1249CEZZ	J	Zener Diode	AB
D3510	RH-EX1250CEZZ	J	Zener Diode	AB
D3511	RH-EX1250CEZZ	J	Zener Diode	AB
D3512	RH-EX1250CEZZ	J	Zener Diode	AB
D3513	RH-EX1250CEZZ	J	Zener Diode	AB
D3901	VHDHSU119//-1	J	Diode	AB
D3902	VHDDAN202K/-1	J	Diode	AB
D3903	VHDDAN202K/-1	J	Diode	AB
D3904	VHDHSU119//-1	J	Diode	AB
D3914	VHDHSU119//-1	J	Diode	AB
D3915	VHDHSU119//-1	J	Diode	AB
D3921	RH-EX1297CEZZ	J	Zener Diode	AB
D3923	RH-EX1297CEZZ	J	Zener Diode	AB
D3930	VHDHSU119//-1	J	Diode	AB
D3937	VHDHSU119//-1	J	Diode	AB
D3938	VHDHSU119//-1	J	Diode	AB
D3939	VHDHSU119//-1	J	Diode	AB
D3940	VHDHSU119//-1	J	Diode	AB
D3941	VHDHSU119//-1	J	Diode	AB

FILTERS AND COILS

CF401	RFiLA0034CEZZ	J	Filter	AD
CF402	RFiLA0034CEZZ	J	Filter	AD
CF1801	RFiLA0034CEZZ	J	Filter	AD
CF3501	RFiLA0107CEZZ	J	Filter	AD
L405	VPACK220J0000	J	Peaking 22µH	AB
L406	VPACK220J0000	J	Peaking 22µH	AB
L407	VPACK220J0000	J	Peaking 22µH	AB
L409	VP-MK100J0000	J	Peaking 10µH	AB
L410	VP-MK100J0000	J	Peaking 10µH	AB
L901	RCiLP0238CEZZ	J	Coil	AE
L906	VP-MK100J0000	J	Peaking 10µH	AB
L910	RCiLP0191CEZZ	J	Coil	AD
L912	RCiLP0191CEZZ	J	Coil	AD
L1801	VP-MK100J0000	J	Peaking 10µH	AB
L1802	VP-MK100J0000	J	Peaking 10µH	AB

PWB-A: DUNTKA232WEV0

MAIN UNIT(Continued)

Ref. No.	Part No.	★	Description	Code
L1803	VP-MK100J0000	J	Peaking 10µH	AB
L1804	VP-MK100J0000	J	Peaking 10µH	AB
L1901	VP-MK560J0000	J	Peaking 56µH	AB
L1902	VP-MK560J0000	J	Peaking 56µH	AB
L3301	VPACK220J0000	J	Peaking 22µH	AB
L3302	VPACK220J0000	J	Peaking 22µH	AB
L3303	VPACK220J0000	J	Peaking 22µH	AB
L3501	RCiLP0238CEZZ	J	Coil	AE
T3501	RCiLB0176CEZZ	J	Coil	AE

CAPACITORS

C401	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C402	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C403	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C404	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C405	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C406	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C407	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C408	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C409	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C410	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C411	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C412	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C413	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C414	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C415	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C416	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C417	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C418	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C419	VCCCCY1HH3R0C	J	3.0p	50V	Ceramic	AA
C420	VCCCCY1HH3R0C	J	3.0p	50V	Ceramic	AA
C421	VCCCCY1HH3R0C	J	3.0p	50V	Ceramic	AA
C422	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C423	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C424	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C425	VCQYTA1HM103J	J	0.01	50V	Mylar	AA
C426	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C427	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C428	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C429	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C430	VCFYFA1HA334J	J	0.33	50V	Mylar	AB
C431	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C432	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C433	VCQYTA1HM103J	J	0.01	50V	Mylar	AA
C434	VCQYTA1HM103J	J	0.01	50V	Mylar	AA
C435	VCEA0A1EW476M	J	47	25V	Electrolytic	AB
C436	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C437	VCEA0A1EW107M	J	100	25V	Electrolytic	AC
C439	VCFYFA1HA334J	J	0.33	50V	Mylar	AB
C440	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C441	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C443	VCQYTA1HM103J	J	0.01	50V	Mylar	AA
C444	VCEA0A0JW476M	J	47	6.3V	Electrolytic	AB
C445	VCEA0A0JW107M	J	100	6.3V	Electrolytic	AB
C446	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C447	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C448	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C449	VCEA0A1CW227M	J	220	16V	Electrolytic	AC
C450	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C451	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C452	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C453	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C454	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C455	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C456	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C457	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C458	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C459	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C460	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C463	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C464	VCCCCY1HH181J	J	180p	50V	Ceramic	AA
C465	VCCCCY1HH181J	J	180p	50V	Ceramic	AA
C552	VCEAGA1HW474T	J	0.47	50V	Electrolytic	AA
C553	VCSATA1CE225K	J	2.2	16V	Tantalum(N.P)	AB
C554	VCQYTA1HM223J	J	0.022	50V	Mylar	AA
C558	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C559	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C560	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C561	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C562	VCFYSA1HB104J	J	0.1	50V	Mylar	AB
C564	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C566	VCFYSA1HB104J	J	0.1	50V	Mylar	AB
C567	VCCCCY1HH560J	J	56p	50V	Ceramic	AA
C901	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C902	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C903	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C911	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C922	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C927	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C948	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C949	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C950	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C969	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C970	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C971	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C972	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C973	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C974	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C975	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C976	VCEA0A1CW108M	J	1000	16V	Electrolytic	AD
C977	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C978	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C981	VCEA0A1AW476M	J	47	10V	Electrolytic	AB
C983	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C984	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C995	VCEA0A1CW108M	J	1000	16V	Electrolytic	AD
C1406	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C1407	VCCCCY1HH5R0C	J	5.0p	50V	Ceramic	AA
C1408	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1409	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C1410	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C1411	VCCCCY1HH5R0C	J	5.0p	50V	Ceramic	AA
C1412	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C1413	VCCCCY1HH5R0C	J	5.0p	50V	Ceramic	AA
C1414	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1415	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C1416	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C1417	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C1418	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C1440	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C1441	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C1442	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C1443	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C1445	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C1446	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C1447	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C1448	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C1449	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C1456	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C1457	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C1458	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C1459	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C1461	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C1463	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C1464	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C1468	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C1469	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C1484	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C1498	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C1801	VCEA0A1HW225M	J	2.2	50V	Electrolytic	AB
C1802	VCEA0A1HW225M	J	2.2	50V	Electrolytic	AB
C1803	VCEA0A1CW337M	J	330	16V	Electrolytic	AC
C1804	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C1805	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1806	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1807	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA

PWB-A: DUNTKA232WEV0

MAIN UNIT(Continued)

Ref. No.	Part No.	★	Description			Code
C1808	VCEA0A1HW474M	J	0.47	50V	Electrolytic	AB
C1809	VCFYFA1HA334J	J	0.33	50V	Mylar	AB
C1810	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C1811	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C1812	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1813	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1814	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C1815	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1816	VCKYCY1EB104K	M	0.1	25V	Ceramic	AA
C1817	VCEA0A1HW225M	J	2.2	50V	Electrolytic	AB
C1818	VCKYCY1EB104K	M	0.1	25V	Ceramic	AA
C1819	VCEA0A1HW225M	J	2.2	50V	Electrolytic	AB
C1820	VCEA0A1HW225M	J	2.2	50V	Electrolytic	AB
C1821	VCEA0A1HW225M	J	2.2	50V	Electrolytic	AB
C1822	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1824	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C1825	VCEA0A1CW337M	J	330	16V	Electrolytic	AC
C1826	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1827	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C1828	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1829	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1830	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1831	VCEA0A1HW475M	J	4.7	50V	Electrolytic	AB
C1832	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1833	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1834	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1835	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1836	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1837	VCEA0A1CW108M	J	1000	16V	Electrolytic	AD
C1839	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1840	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C1842	VCEA0A1VW226M	J	22	35V	Electrolytic	AB
C1844	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C1845	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1846	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C1847	VCKYCY1EB104K	M	0.1	25V	Ceramic	AA
C1848	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C1849	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1856	VCKYCY1EB822K	J	8200p	25V	Ceramic	AA
C1857	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1863	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1864	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1867	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1868	VCCCCY1HH391J	J	390p	50V	Ceramic	AA
C1869	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1870	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1871	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1872	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C1898	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1901	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C1902	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1903	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C1904	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C1905	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C1906	VCKYCY1CB683K	J	0.068	16V	Ceramic	AC
C1907	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C1908	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C1909	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C1910	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1911	VCE9GA1HW475M	J	4.7	50V	Elect.(N.P)	AB
C1912	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1913	VCEA0A0JW476M	J	47	6.3V	Electrolytic	AB
C1914	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1915	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C1916	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1917	VCE9GA1HW475M	J	4.7	50V	Elect.(N.P)	AB
C1918	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C1919	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1920	VCE9GA1HW475M	J	4.7	50V	Elect.(N.P)	AB
C1921	VCE9GA1HW475M	J	4.7	50V	Elect.(N.P)	AB
C1922	VCE9GA1HW105M	J	1.0	50V	Elect.(N.P)	AB
C1925	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1930	VCEA0A0JW476M	J	47	6.3V	Electrolytic	AB
C1931	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C3302	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C3304	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C3305	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C3306	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C3307	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C3308	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C3311	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C3312	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C3313	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C3314	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C3315	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C3316	VCCCCY1HH3R0C	J	3.0p	50V	Ceramic	AA
C3317	VCCCCY1HH3R0C	J	3.0p	50V	Ceramic	AA
C3318	VCCCCY1HH3R0C	J	3.0p	50V	Ceramic	AA
C3319	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C3320	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C3321	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C3322	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C3332	VCEA0A1CW226M	J	22	16V	Electrolytic	AB
C3341	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3343	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C3344	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C3345	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C3346	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C3347	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C3348	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C3349	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C3350	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3351	VCEA0A1CW226M	J	22	16V	Electrolytic	AB
C3352	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C3353	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C3354	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C3355	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C3356	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C3501	VCKYCY1HB561K	J	560p	50V	Ceramic	AA
C3502	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3504	VCKYCY1HB221K	J	220p	50V	Ceramic	AA
C3505	VCE9GA1HW105M	J	1.0	50V	Elect.(N.P)	AB
C3506	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C3507	VCEA0A0JW107M	J	100	6.3V	Electrolytic	AB
C3508	VCKYCY1EB563K	M	0.056	25V	Ceramic	AB
C3509	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C3510	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C3511	VCCCCY1HH7R0D	J	7.0p	50V	Ceramic	AA
C3512	VCCCCY1HH7R0D	J	7.0p	50V	Ceramic	AA
C3513	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C3514	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C3515	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C3516	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C3517	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C3518	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C3519	VCCCCY1HH561J	J	560p	50V	Ceramic	AB
C3520	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C3521	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3522	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C3523	VCEA0A0JW107M	J	100	6.3V	Electrolytic	AB
C3524	VCCCCY1HH331J	J	330p	50V	Ceramic	AA
C3525	VCKYCY1CB102K	M	1000p	16V	Ceramic	AB
C3526	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C3527	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C3529	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C3530	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3533	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3534	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C3535	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C3901	VCE9EA1HW105M	J	1.0	50V	Elect.(N.P)	AC
C3902	VCE9EA1HW105M	J	1.0	50V	Elect.(N.P)	AC
C3903	VCKYCY1HB821K	J	820p	50V	Ceramic	AA
C3904	VCKYCY1HB821K	J	820p	50V	Ceramic	AA
C3907	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C3908	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C3909	VCKYCY1CB473K	J	0.047	16V	Ceramic	AA

PWB-A: DUNTKA232WEV0

MAIN UNIT(Continued)

Ref. No.	Part No.	★			Description	Code
C3910	VCKYCY1CB473K	J	0.047	16V	Ceramic	AA
C3911	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C3912	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C3913	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C3914	VCEA0A1EW107M	J	100	25V	Electrolytic	AC
C3915	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3919	VCFYSA1HB124J	J	0.12	50V	Mylar	AB
C3921	VCFYSA1HB104J	J	0.1	50V	Mylar	AB
C3922	VCEA0A1VW338M	M	3300	35V	Electrolytic	AB
C3923	VCFYSA1HB124J	M	0.12	50V	Mylar	AB
C3924	VCEA0A1VW338M	M	3300	35V	Electrolytic	AB
C3925	VCEA0A1VW338M	M	3300	35V	Electrolytic	AB
C3932	VCEA0A1HW475M	J	4.7	50V	Electrolytic	AB
C3937	VCEA0A1HW225M	J	2.2	50V	Electrolytic	AB
C3939	VCEA0A1HW225M	J	2.2	50V	Electrolytic	AB
C3940	VCEA0A0JW337M	J	330	6.3V	Electrolytic	AC
C3951	VCQYTA1HM183J	J	0.018	50V	Mylar	AB
C3952	VCEA0A1HW335M	J	3.3	50V	Electrolytic	AB
C3953	VCEA0A1HW335M	J	3.3	50V	Electrolytic	AB
C3954	VCEA0A1HW335M	J	3.3	50V	Electrolytic	AB
C3955	VCQYTA1HM183J	J	0.018	50V	Mylar	AB
C3971	VCE9GA1HW335M	J	3.3	50V	Elect.(N.P)	AB
C3972	VCEA0A1CW337M	J	330	16V	Electrolytic	AC
C3973	VCE9GA1HW335M	J	3.3	50V	Elect.(N.P)	AB
C3974	VCKYCY1HB681K	J	680p	50V	Ceramic	AA
C3975	VCKYCY1HB681K	J	680p	50V	Ceramic	AA
C3976	VCEA0A1HW335M	J	3.3	50V	Electrolytic	AB
C3977	VCE9GA1HW335M	J	3.3	50V	Elect.(N.P)	AB
C3978	VCE9GA1HW335M	J	3.3	50V	Elect.(N.P)	AB
C3980	VCEA0A1HW106M	J	10	50V	Electrolytic	AB
C7120	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C7121	VCEA0A0JW476M	J	47	6.3V	Electrolytic	AB
C7122	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C7123	VCEA0A1CW476M	J	47	16V	Electrolytic	AB

RESISTORS

C442	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R401	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R403	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R404	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R406	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R407	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R408	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R409	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R410	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R411	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R412	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R413	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R414	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R415	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R416	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R417	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R418	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R419	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R420	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R421	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R422	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R423	VRS-CY1JF911J	J	910	1/16W	Metal Oxide	AA
R424	VRS-CY1JF911J	J	910	1/16W	Metal Oxide	AA
R425	VRS-CY1JF911J	J	910	1/16W	Metal Oxide	AA
R426	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R427	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R429	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R430	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R431	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R432	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R434	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R438	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R439	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R440	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R441	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R442	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R443	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R444	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R445	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R446	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R447	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R448	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R449	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R450	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R451	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R452	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R453	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R454	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R455	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R456	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R457	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R458	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R459	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R460	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R461	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R462	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R463	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R464	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R465	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R466	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R467	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R468	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R469	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R470	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R471	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R472	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R474	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R475	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R476	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R477	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R478	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R479	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R482	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R483	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R484	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R485	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R486	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R487	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R488	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R489	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R490	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R491	VRS-KA3HG1R0J	M	1.0	5W	Metal Oxide	AB
R492	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R493	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R494	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R496	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R497	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R498	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R499	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R500	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R501	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R502	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R503	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R505	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R506	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R508	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R509	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R510	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R511	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R512	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R515	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R517	VRS-CY1JF824J	J	820k	1/16W	Metal Oxide	AA
R518	VRS-CY1JF154J	J	150k	1/16W	Metal Oxide	AA
R519	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R520	VRS-CY1JF272J	J	2.7k	1/16W	Metal Oxide	AA
R523	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R524	VRS-CY1JF221J	J	220	1/16W	Metal Oxide	AA
R525	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R528	VRS-CY1JF221J	J	220	1/16W	Metal Oxide	AA
R530	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA

PWB-A: DUNTKA232WEV0

MAIN UNIT(Continued)

Ref. No.	Part No.	★			Description	Code
R531	VRS-CY1JF154J	J	150k	1/16W	Metal Oxide	AA
R534	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R589	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA
R590	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R592	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R593	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R902	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R903	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R906	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R910	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R911	VRS-CY1JF222F	J	2.2k	1/16W	Metal Oxide	AA
R912	VRS-CY1JF101F	J	100	1/16W	Metal Oxide	AA
R913	VRS-CY1JF391F	J	390	1/16W	Metal Oxide	AA
R918	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R919	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R920	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R929	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R934	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R935	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R936	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R938	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R943	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R994	VRS-TW2ED561J	J	560	1/4W	Metal Oxide	AA
R995	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R996	VRS-TW2ED681J	J	680	1/4W	Metal Oxide	AA
R997	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R998	VRS-CY1JF272J	J	2.7k	1/16W	Metal Oxide	AA
R999	VRS-CY1JF272J	J	2.7k	1/16W	Metal Oxide	AA
R1401	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1402	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1403	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1404	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1405	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1406	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1407	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1408	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1409	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1411	VRS-CY1JF151J	J	150	1/16W	Metal Oxide	AA
R1412	VRS-CY1JF151J	J	150	1/16W	Metal Oxide	AA
R1413	VRS-CY1JF151J	J	150	1/16W	Metal Oxide	AA
R1414	VRS-CY1JF151J	J	150	1/16W	Metal Oxide	AA
R1415	VRS-CY1JF151J	J	150	1/16W	Metal Oxide	AA
R1416	VRS-CY1JF151J	J	150	1/16W	Metal Oxide	AA
R1417	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1418	VRS-CY1JF220J	J	22	1/16W	Metal Oxide	AA
R1419	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1420	VRS-CY1JF220J	J	22	1/16W	Metal Oxide	AA
R1421	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1422	VRS-CY1JF220J	J	22	1/16W	Metal Oxide	AA
R1423	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1430	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1431	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R1432	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1433	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1434	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1435	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1436	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1437	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1438	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1439	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1440	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R1441	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1442	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1443	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1444	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1445	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1446	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1447	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1448	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1449	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1450	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1451	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA
R1452	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1454	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1455	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R1456	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA
R1457	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1458	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA
R1459	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1460	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1461	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R1464	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1465	VRS-CY1JF151J	J	150	1/16W	Metal Oxide	AA
R1466	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1467	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1468	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1469	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1470	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1471	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1472	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1473	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1474	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1475	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1476	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1477	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1478	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1479	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1480	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1482	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1483	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1484	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1485	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1486	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1487	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1488	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1489	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1490	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1491	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1492	VRS-TV1JD750J	J	75	1/16W	Metal Oxide	AA
R1493	VRS-TV1JD750J	J	75	1/16W	Metal Oxide	AA
R1494	VRS-TV1JD750J	J	75	1/16W	Metal Oxide	AA
R1495	VRS-TV1JD750J	J	75	1/16W	Metal Oxide	AA
R1496	VRS-TV1JD750J	J	75	1/16W	Metal Oxide	AA
R1497	VRS-TV1JD750J	J	75	1/16W	Metal Oxide	AA
R1498	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1499	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1800	VRS-TX2HF221J	J	220	1/2W	Metal Oxide	AA
R1801	VRS-TW2ED102J	J	1.0k	1/4W	Metal Oxide	AA
R1802	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1805	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R1806	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1807	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1808	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1809	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R1810	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1813	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R1814	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1815	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1817	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1823	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1824	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1826	VRS-CY1JF151J	J	150	1/16W	Metal Oxide	AA
R1827	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R1828	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1832	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R1833	VRS-CY1JF393J	J	39k	1/16W	Metal Oxide	AA
R1835	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1836	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1837	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA
R1838	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1839	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1840	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1841	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1843	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1844	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1845	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA

PWB-A: DUNTKA232WEV0

MAIN UNIT(Continued)

Ref. No.	Part No.	★			Description	Code
R1846	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1848	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1849	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1850	VRS-CY1JF224J	J	220k	1/16W	Metal Oxide	AA
R1851	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R1852	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1853	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1854	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R1855	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1856	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1857	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1859	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1860	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R1861	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1862	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R1863	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1864	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R1865	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R1866	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA
R1867	VRS-CY1JF680J	J	68	1/16W	Metal Oxide	AA
R1868	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R1869	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1870	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1871	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1873	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1874	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1875	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1876	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1877	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1878	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1879	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1880	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1881	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1882	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R1883	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1884	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1885	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1886	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1887	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1889	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R1890	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R1891	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R1892	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R1893	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1894	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1895	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1896	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1897	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1898	VRS-CY1JF393J	J	39k	1/16W	Metal Oxide	AA
R1899	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R1901	VRS-TV1JD750J	J	75	1/16W	Metal Oxide	AA
R1902	VRS-TV1JD750J	J	75	1/16W	Metal Oxide	AA
R1903	VRS-TV1JD750J	J	75	1/16W	Metal Oxide	AA
R1904	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R1905	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1906	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1907	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1909	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R1910	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R1912	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1913	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1914	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1915	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA
R1916	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1917	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R1919	VRS-CY1JF433J	J	43k	1/16W	Metal Oxide	AA
R1921	VRS-CY1JF432J	J	4.3k	1/16W	Metal Oxide	AA
R1922	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1923	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1924	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA
R1925	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1928	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1930	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1931	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1932	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R1933	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1934	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1935	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1936	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R1940	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R1960	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1961	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R1962	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R1963	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1964	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1965	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R1966	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R1967	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1968	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1969	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R1970	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R1971	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1972	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1973	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3290	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3293	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3294	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3295	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3304	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3305	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3308	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3309	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R3312	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R3313	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R3314	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R3315	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R3316	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R3317	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3318	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R3319	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R3320	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3321	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3322	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3323	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R3324	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R3325	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R3329	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3330	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3331	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3333	VRS-CY1JF911J	J	910	1/16W	Metal Oxide	AA
R3334	VRS-CY1JF911J	J	910	1/16W	Metal Oxide	AA
R3335	VRS-CY1JF911J	J	910	1/16W	Metal Oxide	AA
R3338	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3339	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3340	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3348	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3349	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3350	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3360	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R3361	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R3362	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R3363	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R3364	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R3371	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3373	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3375	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3376	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3378	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3380	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3381	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3383	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3385	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3386	VRS-CY1JF272J	J	2.7k	1/16W	Metal Oxide	AA
R3387	VRS-CY1JF272J	J	2.7k	1/16W	Metal Oxide	AA
R3388	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3389	VRS-CY1JF272J	J	2.7k	1/16W	Metal Oxide	AA

PWB-A: DUNTKA232WEV0

MAIN UNIT(Continued)

Ref. No.	Part No.	★	Description	Code
R3391	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R3392	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3394	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R3395	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R3397	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3398	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3399	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3468	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3469	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3500	VRS-CY1JF681J	J	680 1/16W Metal Oxide	AA
R3501	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3502	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3503	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
R3504	VRS-CY1JF105J	J	1.0M 1/16W Metal Oxide	AA
R3505	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3506	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3507	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3508	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3509	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA
R3510	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3511	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3512	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3513	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3514	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3515	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3516	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3517	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA
R3518	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA
R3519	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA
R3520	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3521	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3522	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3523	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3524	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3525	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3526	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3527	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3528	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3530	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3531	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3532	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3533	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3534	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3535	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3536	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3541	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3542	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3544	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3545	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3546	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3548	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3549	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3550	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3551	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3552	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3553	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3554	VRS-CY1JF563J	J	56k 1/16W Metal Oxide	AA
R3555	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3556	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R3557	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R3558	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3559	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3560	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3561	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3562	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R3563	VRS-CY1JF563J	J	56k 1/16W Metal Oxide	AA
R3564	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3565	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R3566	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R3567	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R3568	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3569	VRS-CY1JF152J	J	1.5k 1/16W Metal Oxide	AA
R3570	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R3571	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R3572	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3573	VRS-CY1JF563J	J	56k 1/16W Metal Oxide	AA
R3574	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R3575	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R3576	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3577	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3578	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R3579	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3580	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R3581	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R3582	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3583	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3584	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3585	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3586	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R3587	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3588	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3589	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3591	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3592	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3593	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3594	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3595	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R3596	VRS-CY1JF681J	J	680 1/16W Metal Oxide	AA
R3597	VRS-CY1JF683J	J	68k 1/16W Metal Oxide	AA
R3598	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R3599	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3600	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3605	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3606	VRS-CY1JF561J	J	560 1/16W Metal Oxide	AA
R3607	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3608	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3614	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3615	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3616	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3619	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3621	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3622	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R3623	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R3624	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3625	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3626	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3627	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3630	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3631	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3632	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3633	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3900	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R3901	VRS-CY1JF124J	J	120k 1/16W Metal Oxide	AA
R3902	VRS-CY1JF392J	J	3.9k 1/16W Metal Oxide	AA
R3903	VRS-CY1JF392J	J	3.9k 1/16W Metal Oxide	AA
R3904	VRS-CY1JF124J	J	120k 1/16W Metal Oxide	AA
R3905	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3906	VRS-TX2HF000J	J	0 1/2W Metal Oxide	AA
R3907	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3908	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3910	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R3913	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3919	VRS-TW2ED2R2J	J	2.2 1/4W Metal Oxide	AB
R3921	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3923	VRS-TW2ED2R2J	J	2.2 1/4W Metal Oxide	AB
R3930	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3931	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3932	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3933	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3934	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R3935	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3937	VRS-CY1JF152J	J	1.5k 1/16W Metal Oxide	AA
R3938	VRS-CY1JF221J	J	220 1/16W Metal Oxide	AA
R3939	VRS-CY1JF152J	J	1.5k 1/16W Metal Oxide	AA
R3940	VRS-CY1JF221J	J	220 1/16W Metal Oxide	AA
R3950	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code

PWB-A: DUNTKA232WEV0

MAIN UNIT(Continued)

R3951	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3960	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R3961	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R3962	VRS-CY1JF224J	J	220k	1/16W	Metal Oxide	AA
R3963	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R3964	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R3965	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA
R3966	VRS-CY1JF224J	J	220k	1/16W	Metal Oxide	AA
R3967	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R3968	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R3970	VRS-TW2ED331J	J	330	1/4W	Metal Oxide	AA
R3971	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R3972	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R3973	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA
R3974	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R3975	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA
R3976	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3977	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R3978	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R3979	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA
R3980	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R3981	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA
R3982	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3983	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R3984	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R3985	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R3986	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R3987	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R3988	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R3989	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R3991	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R3992	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R3993	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R3994	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R3999	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R4000	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA

MISCELLANEOUS PARTS

FB401	RBLN-0057CEZZ	J	Ferrite Bead	AC
FB402	RBLN-0057CEZZ	J	Ferrite Bead	AC
FB403	RBLN-0057CEZZ	J	Ferrite Bead	AC
FB404	RBLN-0057CEZZ	J	Ferrite Bead	AC
FB408	RBLN-0057CEZZ	J	Ferrite Bead	AC
FB1402	RBLN-0061TAZZ	J	Ferrite Bead	AD
J1402	QTANJ0970CEZZ	M	Terminal	AN
P403	QPLGN0541CEZZ	J	Plug, 5-pin	AB
P801	QPLGN0741CEZZ	J	Plug, 7-pin (LB)	AC
P802	QPLGN0541CEZZ	J	Plug, 5-pin (CG)	AB
P803	QPLGN0441CEZZ	J	Plug, 4-pin (CR)	AB
P804	QPLGN0441CEZZ	J	Plug, 4-pin (CB)	AB
P805	QPLGN1041CEZZ	J	Plug, 10-pin (LC)	AC
P3501	QPLGN0641CEZZ	J	Plug, 6-pin (OC)	AB
P3503	QPLGN0941CEZZ	J	Plug, 9-pin (I)	AC
P3504	QPLGN1241CEZZ	J	Plug, 12-pin (RA)	AB
P3904	QPLGN0841CEZZ	J	Plug, 8-pin (SH)	AB
SC401	QPLGZ2262CEZZ	J	Socket, 22-pin (IO)	AG
SC402	QPLGZ2262CEZZ	J	Socket, 22-pin (IP)	AG
SC403	QSOCZ4041CEZZ	J	Socket, 40-pin (TB)	AG
SC806	QSOCZ1394GEZZ	J	Socket, 13-pin (SC)	AD
SC808	QSOCZ1394GEZZ	J	Socket, 13-pin (DC)	AD
SC1953	QSOCN1594CEZZ	J	Socket, VGA	AK
SC3301	QSOCZ3041CEZZ	J	Socket, 30-pin (JB)	AF
SC3302	QSOCZ3041CEZZ	J	Socket, 30-pin (JA)	AF
SC3802	QSOCN0261FJ00	J	Socket, 12-pin (SB)	AF
SC3803	QSOCN0261FJ00	J	Socket, 12-pin (SA)	AF
SC7001	QSOCN0264FJ00	J	Socket, 15-pin (YC)	AH
RDA407	PRDAR0259PEFW	J	Heat Sink, IC407	AE
RDA3901	PRDAR0104MEFW	M	Heat Sink, IC3901	AH
	LX-BZ3100CEFD	J	Screw	AA

PWB-B: DUNTKA241WEV0
CRT GREEN UNIT

Ref. No.	Part No.	★	Description	Code
INTEGRATED CIRCUIT				
IC8801	VHiTDA6120Q-1	J	TDA6120Q	AU
TRANSISTORS				
Q5505	VS2SC3198-Y-1	J	2SC3198-Y	AA
Q5506	VS2SA1266-Y-1	J	2SA1266-Y	AA
Q5507	VS2SA1837//-1	J	2SA1837	AF
Q5508	VS2SC4793//-1	J	2SC4793	AF
Q8801	VS2SC3928R/-1	J	2SC3928R	AB
Q8802	VS2SA1246//1E	J	2SA1246	AE
Q8803	VS2SC4636//1E	J	2SC4636	AM
DIODES				
D5503	VHD1SS119//-1	J	Diode	AB
D5504	RH-DX0487CEZZ	J	Diode	AC
D5505	RH-DX0487CEZZ	J	Diode	AC
D5510	VHD1SS119//-1	J	Diode	AB
D8801	VHD1SS355//-1	J	Diode	AB
D8802	VHD1SS355//-1	J	Diode	AB
D8803	VHD1SS355//-1	J	Diode	AB
D8804	VHD1SS119//-1	J	Diode	AB
D8805	RH-EX0222CEZZ	J	Zener Diode	AB
D8806	RH-DX0220CEZZ	J	Diode	AB
D8808	RH-DX0220CEZZ	J	Diode	AB
COIL				
L8802	RCiLP0227CEZZ	J	Coil	AE

CAPACITORS

C5505	VCEA0A1EW476M	J	47	25V	Electrolytic	AB
C5507	VCKYPA1HF103Z	J	0.01	50V	Ceramic	AA
C5508	VCKYPA2HB472K	J	4700p	500V	Ceramic	AB
C5509	VCKYPA1HB472K	J	4700p	50V	Ceramic	AA
C5510	VCKYPA1HF103Z	J	0.01	50V	Ceramic	AA
C5511	VCKYPA1HF103Z	J	0.01	50V	Ceramic	AA
C5512	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C5513	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C5514	VCEA0A2CW106M	J	10	160V	Electrolytic	AD
C5515	VCEA0A2CW226M	J	22	160V	Electrolytic	AE
C5517	VCCSPA2HL220K	J	22p	500V	Ceramic	AA
C8801	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C8802	VCEA0A1CW337M	J	330	16V	Electrolytic	AC
C8805	VCCCTV1HH270J	J	27p	50V	Ceramic	AA
C8807	VCKYTV1HF104Z	J	0.1	50V	Ceramic	AA
C8808	VCKYTV1HF104Z	J	0.1	50V	Ceramic	AA
C8809	VCCCTV1HH221J	J	220p	50V	Ceramic	AA
C8810	RC-KZ1036CEZZ	J	0.047	250V	Ceramic	AE
C8811	VCFYAA2EA104J	J	0.1	250V	M.P.F.	AD
C8812	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C8813	VCKYPA1HF103Z	J	0.01	50V	Ceramic	AA
C8814	VCEA0A1CW108M	J	1000	16V	Electrolytic	AD
C8816	VCEAGH2EW476M	J	47	250V	Electrolytic	AE
C8817	RC-KZ018JCEZZ	J	0.01	250V	Ceramic	AC

RESISTORS

R5512	VRD-RA2BE100J	J	10	1/8W	Carbon	AA
R5513	VRD-RA2BE220J	J	22	1/8W	Carbon	AA
R5514	VRD-RA2BE220J	J	22	1/8W	Carbon	AA
R5515	VRD-RA2BE152J	J	1.5k	1/8W	Carbon	AA
R5516	VRD-RA2BE683J	J	68k	1/8W	Carbon	AA
R5517	VRD-RA2BE123J	J	12k	1/8W	Carbon	AA
R5518	VRD-RA2BE683J	J	68k	1/8W	Carbon	AA
R5519	VRD-RA2BE152J	J	1.5k	1/8W	Carbon	AA
R5520	VRD-RA2EE560J	J	56	1/4W	Carbon	AA
R5521	VRD-RA2EE560J	J	56	1/4W	Carbon	AA
R5522	VRD-RA2EE2R7J	J	2.7	1/4W	Carbon	AA
R5523	VRD-RA2EE2R7J	J	2.7	1/4W	Carbon	AA
R5524	VRS-VV3DB101J	J	100	2W	Metal Oxide	AA
⚠ R5525	VRS-VV3AB471J	J	470	1W	Metal Oxide	AA
R5527	VRS-TX2HF331J	J	330	1/2W	Metal Oxide	AB
R5528	VRS-TX2HF000J	J	0	1/2W	Metal Oxide	AA
R8802	VRS-TV1JD152J	J	1.5k	1/16W	Metal Oxide	AA
R8803	VRS-TV1JD101J	J	100	1/16W	Metal Oxide	AA
R8804	VRS-TV1JD153J	J	15k	1/16W	Metal Oxide	AA
R8805	VRS-TV1JD472J	J	4.7k	1/16W	Metal Oxide	AA
R8806	VRS-TV1JD152J	J	1.5k	1/16W	Metal Oxide	AA
R8807	VRS-TV1JD223J	J	22k	1/16W	Metal Oxide	AA
R8808	VRS-TV1JD101J	J	100	1/16W	Metal Oxide	AA
R8810	VRS-TV1JD681J	J	680	1/16W	Metal Oxide	AA
R8811	VRS-TV1JD000J	J	0	1/16W	Metal Oxide	AA
R8812	VRS-TV1JD681J	J	680	1/16W	Metal Oxide	AA
R8813	VRD-RA2BE223J	J	22k	1/8W	Carbon	AA
R8814	VRD-RA2BE101J	J	100	1/8W	Carbon	AB
R8815	VRD-RA2BE183J	J	18k	1/8W	Carbon	AA
R8816	VRD-RA2BE223J	J	22k	1/8W	Carbon	AA
R8817	VRD-RA2BE100J	J	10	1/8W	Carbon	AB
R8818	VRC-MA2HG224J	J	220k	1/2W	Solid	AA
R8819	VRD-RA2BE470J	J	47	1/8W	Carbon	AA
⚠ R8820	VRS-KA3HG223J	J	22k	5W	Metal Oxide	AD
R8823	VRC-MA2HG331K	J	330	1/2W	Solid	AA
R8824	VRC-MA2HG224K	J	220k	1/2W	Solid	AA

MISCELLANEOUS PARTS

FB5501	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB8801	RBLN-0037CEZZ	J	Ferrite Bead	AB
FB8802	RBLN-0037CEZZ	J	Ferrite Bead	AB
P5501	QPLGN0741CEZZ	J	Plug, 7-pin (N)	AC
P5502	QPLGN0241CEZZ	J	Plug, 2-pin (R)	AA
P5503	QPLGN0241CEZZ	J	Plug, 2-pin (B)	AA
P5504	QPLGN0241CEZZ	J	Plug, 2-pin (G)	AA
P8801	QPLGN0541CEZZ	J	Plug, 5-pin (CG)	AB
P8802	QTiPM0083CEZZ	J	Tip (L1)	AB
P8803	QTiPM0083CEZZ	J	Tip (L6)	AB
P8804	QTiPM0083CEZZ	J	Tip (K8802)	AB
P8805	QPLGN0541CEZZ	J	Plug, 5-pin (NB)	AB
P8806	QPLGN0641CEZZ	J	Plug, 6-pin (NA)	AB
P8807	QTiPM0083CEZZ	J	Tip (L4)	AB
P8809	QTiPM0083CEZZ	J	Tip (L5)	AB
SC8801	QSOCV0919CEZZ	J	CRT Socket	AH
⚠ SG8801	QSPGC0015CEZZ	J	Spark Gap	AB
⚠ SG8802	QSPGC0015CEZZ	J	Spark Gap	AB
⚠ SG8803	QSPGC0015CEZZ	J	Spark Gap	AB
SLD8801	PSLDM0014MEFW	M	Shield	AD
RDA5501	PRDAR0135PEFW	J	Heat Sink, Q5507	AE
RDA5502	PRDAR0135PEFW	J	Heat Sink, Q5508	AE
RDA8801	PRDAR0105MEFW	M	Heat Sink, IC8801	AE
	LX-BZ0086TAFD	J	Screw	AA
	LX-BZ3100CEFD	J	Screw	AA

PWB-C: DUNTKA233WEV0

H.V. UNIT

UNIT

Ref. No.	Part No.	★	Description	Code
UNT651	RUNTK0688CEZZ	M	Digital Convergence Unit	

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC601	VHiUPC358C/-1	J	UPC358C	AD
IC605	VHiUPC358C/-1	J	UPC358C	AD
IC6501	VHiTA79005S-1	M	TA79005S	AF
IC6502	VHiBA005T//-1	J	BA005T	AF
IC6503	VHiLA7841//-1	J	LA7841	AM
IC6504	VHiKiA431//-1	J	KIA431	AE

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q601	VS2SD1830//1E	J	2SD1830	AF
Q602	VS2SA1246//1E	J	2SA1246	AE
Q603	VS2SC2482//-1	J	2SC2482	AD
Q604	VS2SC3198-G-1	J	2SC3198-G	AA
Q639	VS2SC3198-G-1	J	2SC3198-G	AA
Q640	VS2SC3198-G-1	J	2SC3198-G	AA
Q650	VS2SC4636//1E	J	2SC4636	AM
⚠ Q652	VS2SA1376-K-1	J	2SA1376	AC
Q672	VSRDN080N251E	J	RDN080N251E	AF
⚠ Q673	VS2SC5612++1E	J	2SC5612	AX
Q674	VS2SC3198-G-1	J	2SC3198-G	AA
Q675	VS2SA1266-Y-1	J	2SA1266-Y	AA
Q6601	VS2SC3198-G-1	J	2SC3198-G	AA
Q6602	VS2SC3198-G-1	J	2SC3198-G	AA
Q6603	VS2SC3198-G-1	J	2SC3198-G	AA

DIODES

Ref. No.	Part No.	★	Description	Code
D601	RH-DX0461CEZZ	J	Diode	AG
D602	VHD1SS119//-1	J	Diode	AB
D603	RH-EX0378GEZZ	J	Zener Diode	AA
D623	VHD1SS119//-1	J	Diode	AB
D624	VHD1SS119//-1	J	Diode	AB
⚠ D630	RH-DX0302CEZZ	J	Diode	AC
⚠ D631	RH-DX0229CEZZ	J	Diode	AF
⚠ D632	RH-DX0295CEZZ	J	Diode	AD
D636	VHD1SS119//-1	J	Diode	AB
D637	VHD1SS119//-1	J	Diode	AB
⚠ D640	RH-DX0511CEZZ	J	Diode	AE
D641	RH-EX0365GEZZ	J	Zener Diode	AA
⚠ D642	RH-DX0518CEZZ	J	Diode	AL
D643	VHD1SS119//-1	J	Diode	AB
D644	VHD1SS119//-1	J	Diode	AB
⚠ D646	RH-DX0452CEZZ	J	Diode	AH
⚠ D648	RH-DX0511CEZZ	J	Diode	AE
⚠ D651	RH-DX0302CEZZ	J	Diode	AC
D660	RH-EX0357GEZZ	M	Zener Diode	AC
▲⚠ D691	RH-DX0487CEZZ	J	Diode	AC
▲⚠ D693	RH-EX0627GEZZ	J	Zener Diode	AA
D6501	RH-DX0295CEZZ	J	Diode	AD
D6502	RH-EX0437GEZZ	J	Zener Diode	AB
D6503	VHD1SS119//-1	J	Diode	AB
D6504	RH-EX0365GEZZ	J	Zener Diode	AA
D6505	RH-EX0654CEZZ	J	Zener Diode	AD
D6518	RH-EX0635GEZZ	J	Zener Diode	AA

COILS AND TRANSFORMERS

Ref. No.	Part No.	★	Description	Code
L613	RCiLZ1051CEZZ	J	Coil	AK
L639	RCiLZ0858CEZZ	J	Coil	AM
L641	RCiLZ1068CEZZ	M	Coil	AE
L651	RCiLP0191CEZZ	J	Coil	AD
L670	VP-MK560J0000	J	Peaking 56µH	AB
L6601	RCiLP0195CEZZ	J	Coil	AD
L6602	RCiLP0195CEZZ	J	Coil	AD
L6603	RCiLP0195CEZZ	J	Coil	AD
L6604	RCiLP0195CEZZ	J	Coil	AD
▲⚠ T630	RTRNF0043MEZZ	M	H-Volt Transformer	BA
⚠ T631	RTRNZ0539BMZZ	J	Transformer	AH
T633	RTRNZ0726CEZZ	J	Transformer	AM

CONTROL

Ref. No.	Part No.	★	Description	Code
R6514	RVR-M4333CEZZ	J	6.8k (B)	

CAPACITORS

[P.F.…Polyester Film, M.P.F.…Metalized Polyester Film]

Ref. No.	Part No.	★	Description			Code
C601	VCQPPB2GB473K	J	0.047	400V	P.F.	AD
C602	VCFYSA1HB224J	J	0.22	50V	M.P.F.	AB
C603	VCEA0A1VW226M	J	22	35V	Electrolytic	AB
C604	RC-QZA152TAYJ	J	1500p	50V		AB
C621	VCEA0A1VW226M	J	22	35V	Electrolytic	AB
C622	VCFYSA1HB224J	J	0.22	50V	M.P.F.	AB
C636	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
C637	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
C638	VCKYPA2HB101K	J	100p	500V	Ceramic	AA
C639	VCEAGA1VW108M	J	1000	35V	Electrolytic	AD
C640	VCEA0A1EW108M	J	1000	25V	Electrolytic	AD
C641	VCEA0A1EW108M	J	1000	25V	Electrolytic	AD
C642	VCE9GA1HW335M	J	3.3	50V	Elect.(N.P)	AB
C643	VCKYPA1HB391K	J	390p	50V	Ceramic	AA
C644	VCKYPA1HB391K	J	390p	50V	Ceramic	AA
C646	VCQYTA2AA104K	J	0.1	100V	Mylar	AB
C647	VCQPPB2JB432J	M	4300p	630V	P.F.	AB
C648	VCQPPB2JB332J	J	3300p	630V	P.F.	AB
C649	RC-FZ0374CEZZ	J	4.7	100V	M.P.F.	AF
C650	VCFPVC3DA822H	J	8200p	2kV	M.P.F.	AE
C651	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
⚠ C652	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
C653	VCEA0H2EW107M	J	100	250V	Electrolytic	AF
▲⚠ C655	VCFPVC3DA272H	J	2700p	2kV	M.P.F.	AE
▲⚠ C656	VCFPVC3DA182H	J	1800p	2kV	M.P.F.	AE
C658	VCEA0A1EW476M	J	47	25V	Electrolytic	AB
C659	RC-EZ1277CEZZ	J	220	180V	Electrolytic	AH
⚠ C661	VCFPVC3DA182H	J	1800p	1.8kV	M.P.F.	AE
C673	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C684	VCFPGU2EC564J	J	0.56	250V	M.P.F.	AE
C685	VCKYPH3DB561K	J	560p	2kV	Ceramic	AC
C686	RC-KZ0024CEZZ	J	0.001	2kV	Ceramic	AC
C691	VCEA0A1VW107M	J	100	35V	Electrolytic	AC
C692	VCEA0A1CW227M	J	220	16V	Electrolytic	AC
C6501	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C6502	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C6503	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C6504	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C6505	VCEA0A1AW476M	J	47	10V	Electrolytic	AB
C6506	VCEA0A1EW107M	J	100	25V	Electrolytic	AC
C6507	VCEA0A1EW107M	J	100	25V	Electrolytic	AC
C6508	RC-QZ0037CEZZ	J	0.01	100V	P.F.	AB
C6509	RC-FZ0272CEZZ	J	0.39	100V	M.P.F.	AD
C6510	VCKYPA2HB471K	J	470p	500V	Ceramic	AA
C6511	VCFYSA1HB563J	J	0.056	50V	M.P.F.	AA
C6512	VCEA4A1HN107M	J	100	50V	Electrolytic	AC
C6513	VCKYPA1HB471K	J	470p	50V	Ceramic	AA
C6514	VCCSPA2HL220K	J	22p	500V	Ceramic	AA
C6617	VCCCPA1HH5R0J	J	5.0p	50V	Ceramic	AA
C6619	VCCCPA1HH5R0J	J	5.0p	50V	Ceramic	AA
C6621	VCCCPA1HH5R0J	J	5.0p	50V	Ceramic	AA

RESISTORS

Ref. No.	Part No.	★	Description			Code
R601	VRD-RA2EE122G	J	1.2k	1/4W	Carbon	AA
R602	VRD-RA2EE224J	J	220k	1/4W	Carbon	AA
R603	VRD-RM2HD182J	J	1.8k	1/2W	Carbon	AA
R604	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	AA
R605	VRD-RM2HD822J	J	8.2k	1/2W	Carbon	AA
R606	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R607	VRD-RA2BE122J	J	1.2k	1/8W	Carbon	AA
⚠ R608	VRS-VV3LB100J	J	10	3W	Metal Oxide	AB
R609	VRD-RM2HD184J	J	180k	1/2W	Carbon	AA
R610	VRD-RM2HD154J	J	150k	1/2W	Carbon	AA
R611	VRS-VV3AB103J	J	10k	1W	Metal Oxide	AA
R612	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R613	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R614	VRS-SV2HC221J	J	220	1/2W	Metal Oxide	AA
R615	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R616	VRD-RM2HD823J	J	82k	1/2W	Carbon	AA
R617	VRS-SV2HC100J	J	10	1/2W	Metal Oxide	AA

PWB-C: DUNTKA233WEV0

H.V. UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
R618	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
⚠ R620	VRW-KQ3NC3R3K	J	3.3	7W	Cement	AE
R623	VRD-RA2BE184J	J	180k	1/8W	Carbon	AA
R624	VRD-RA2BE124J	J	120k	1/8W	Carbon	AA
R625	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R626	VRD-RA2BE562J	J	5.6k	1/8W	Carbon	AA
R632	VRD-RA2BE183J	J	18k	1/8W	Carbon	AA
⚠ R633	VRN-GA2EB1R0J	J	1.0	1/4W	Metal Film	AA
⚠ R634	VRN-VV3ABR22J	J	0.22	1W	Metal Film	AA
⚠ R635	VRN-SV2HCR22J	J	0.22	1/2W	Metal Film	AB
R636	VRD-RM2HD562J	J	5.6k	1/2W	Carbon	AA
R637	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R640	VRS-SV2HC180J	J	18	1/2W	Metal Oxide	AA
R641	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R642	VRD-RA2BE683J	J	68k	1/8W	Carbon	AA
R643	VRD-RA2BE223J	J	22k	1/8W	Carbon	AA
R644	VRD-RA2BE104J	J	100k	1/8W	Carbon	AA
R645	VRD-RA2BE274J	J	270k	1/8W	Carbon	AA
R646	VRS-VV3AB272J	J	2.7k	1W	Metal Oxide	AA
R647	VRD-RA2BE473J	J	47k	1/8W	Carbon	AA
R648	VRD-RA2BE823J	J	82k	1/8W	Carbon	AA
R649	VRD-RA2BE822J	J	8.2k	1/8W	Carbon	AA
⚠ R650	VRS-VV3LB683J	J	68k	3W	Metal Oxide	AC
⚠ R651	VRN-VV3AB5R6J	J	5.6	1W	Metal Film	AA
R652	VRS-VV3AB181J	J	180	1W	Metal Oxide	AA
R653	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	AA
⚠ R654	VRS-VV3LB823J	J	82k	3W	Metal Oxide	AC
R655	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R656	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R658	VRD-RM2HD103J	J	10k	1/2W	Carbon	AA
⚠ R659	VRN-VV3ABR27J	J	0.27	1W	Metal Film	AA
R661	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R662	VRD-RA2BE224J	J	220k	1/8W	Carbon	AA
⚠ R663	VRS-KA3HG681J	J	680	5W	Metal Oxide	AD
R664	VRD-RA2BE823J	J	82k	1/8W	Carbon	AA
R667	VRD-RA2BE394J	J	390k	1/8W	Carbon	AA
R668	VRC-MA2HG333K	J	33k	1/2W	Solid	AA
⚠ R671	VRD-RM2HD150J	J	15	1/2W	Carbon	AA
⚠ R674	VRS-KA3HG821J	J	820	5W	Metal Oxide	AD
⚠ R675	VRS-KA3HG821J	J	820	5W	Metal Oxide	AD
⚠ R676	VRS-VV3DB272J	J	2.7k	2W	Metal Oxide	AA
R677	VRD-RA2BE100J	J	10	1/8W	Carbon	AA
⚠ R678	VRD-RM2HD8R2J	J	8.2	1/2W	Carbon	AA
⚠ R685	VRS-VV3LB104J	J	100k	3W	Metal Oxide	AB
R686	VRD-RA2BE682J	J	6.8k	1/8W	Carbon	AA
R687	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	AA
R688	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R689	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R690	VRD-RM2HD221J	J	220	1/2W	Carbon	AA
▲⚠ R691	VRN-GA2EB1R0J	J	1.0	1/4W	Metal Film	AA
R692	VRD-RA2BE562J	J	5.6k	1/8W	Carbon	AA
▲⚠ R694	VRD-RA2EE562G	J	5.6k	1/4W	Carbon	AA
▲⚠ R695	VRD-RA2EE332G	J	3.3k	1/4W	Carbon	AB
R697	VRS-SV2HC102J	J	1.0k	1/2W	Metal Oxide	AA
R698	VRS-SV2HC101J	J	100	1/2W	Metal Oxide	AA
R699	VRD-RA2EE102J	J	1.0k	1/4W	Carbon	AA
R6506	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R6507	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R6508	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R6509	VRD-RA2BE223J	J	22k	1/8W	Carbon	AA
R6510	VRD-RA2BE222J	J	2.2k	1/8W	Carbon	AA
R6511	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R6512	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R6513	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
⚠ R6515	VRS-VV3AB101J	J	100	1W	Metal Oxide	AA
R6516	VRS-VV3LB221J	J	220	3W	Metal Oxide	AB
R6517	VRD-RA2BE1R0J	J	1.0	1/8W	Carbon	AA
R6519	VRN-RA2BK153F	J	15k	1/8W	Metal Film	AA
R6520	VRN-RA2BK223F	J	22k	1/8W	Metal Film	AB
R6521	VRN-VV3DB1R2J	J	1.2	2W	Metal Film	AA
R6522	VRN-RA2BK223F	J	22k	1/8W	Metal Film	AB
⚠ R6523	VRS-VV3AB101J	J	100	1W	Metal Oxide	AA
R6524	VRN-RA2BK153F	J	15k	1/8W	Metal Film	AA
⚠ R6525	VRS-VV3AB101J	J	100	1W	Metal Oxide	AA
R6526	VRD-RM2HD274J	J	270k	1/2W	Carbon	AA
R6527	VRD-RM2HD154J	J	150k	1/2W	Carbon	AA
R6529	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R6530	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R6531	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R6590	VRD-RA2BE223J	J	22k	1/8W	Carbon	AA
R6591	VRD-RM2HD102J	J	1.0k	1/2W	Carbon	AA
R6592	VRN-RA2BK104F	J	100k	1/8W	Metal Film	AA
R6593	VRN-RA2BK272F	J	2.7k	1/8W	Metal Film	AA
R6594	VRN-RA2BK102F	J	1.0k	1/8W	Metal Film	AB
R6605	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R6632	VRD-RM2HD274J	J	270k	1/2W	Carbon	AA
R6634	VRD-RA2BE272J	J	2.7k	1/8W	Carbon	AA
R6635	VRD-RA2BE681J	J	680	1/8W	Carbon	AA
R6636	VRD-RA2BE272J	J	2.7k	1/8W	Carbon	AA
R6637	VRD-RA2BE101J	J	100	1/8W	Carbon	AB
R6638	VRD-RA2BE101J	J	100	1/8W	Carbon	AB
R6639	VRD-RA2BE100J	J	10	1/8W	Carbon	AA
R6641	VRD-RA2BE272J	J	2.7k	1/8W	Carbon	AA
R6642	VRD-RA2BE681J	J	680	1/8W	Carbon	AA
R6643	VRD-RA2BE272J	J	2.7k	1/8W	Carbon	AA
R6644	VRD-RA2BE101J	J	100	1/8W	Carbon	AB
R6645	VRD-RA2BE101J	J	100	1/8W	Carbon	AB
R6646	VRD-RA2BE100J	J	10	1/8W	Carbon	AA
R6648	VRD-RA2BE272J	J	2.7k	1/8W	Carbon	AA
R6649	VRD-RA2BE681J	J	680	1/8W	Carbon	AA
R6651	VRD-RA2BE272J	J	2.7k	1/8W	Carbon	AA
R6652	VRD-RA2BE101J	J	100	1/8W	Carbon	AB
R6653	VRD-RA2BE101J	J	100	1/8W	Carbon	AB
R6654	VRD-RA2BE100J	J	10	1/8W	Carbon	AA
R6695	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA

MISCELLANEOUS PARTS

FB655	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB656	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB671	RBLN-0047CEZZ	J	Ferrite Bead	AB
FB672	RBLN-0047CEZZ	J	Ferrite Bead	AB
P601	QPLGN0160FJZZ	J	Plug, 3-pin (KR)	AD
P602	QPLGN0160FJZZ	J	Plug, 3-pin (KG)	AD
P603	QPLGN0160FJZZ	J	Plug, 3-pin (KB)	AD
P604	QPLGN0660CEZZ	J	Plug, 6-pin (BL)	AC
P605	QPLGN0660CEZZ	J	Plug, 6-pin (GL)	AC
P606	QTiPM0083CEZZ	J	Tip (E)	AB
P607	QTiPM0083CEZZ	J	Tip (DF)	AB
P608	QPLGN0660CEZZ	J	Plug, 6-pin (RL)	AC
P610	QPLGN0360CEZZ	J	Plug, 3-pin	AC
P611	QPLGN0741CEZZ	J	Plug, 7-pin (N)	AC
P612	QPLGN0841CEZZ	J	Plug, 8-pin (LA)	AB
P613	QPLGN0641CEZZ	J	Plug, 6-pin (LE)	AB
P614	QPLGN0741CEZZ	J	Plug, 7-pin (DI)	AC
P615	QPLGN1241CEZZ	J	Plug, 12-pin (DO)	AB
P618	QPLGZ1393GEZZ	J	Plug, 13-pin (SC)	AE
P619	QPLGZ1393GEZZ	J	Plug, 13-pin (DC)	AE
P620	QTiPM0083CEZZ	J	Tip	AB
P651	QPLGN0341CEZZ	J	Plug, TP651-3	AA
SC610	QSOCN0264FJ00	J	Socket, 15-pin (DG)	AH
SC611	QSOCN0258FJ00	J	Socket, 9-pin (DS)	AF
SG681	QSPGH0025CEZZ	J	Spark Gap	AC
SG682	QSPGH0025CEZZ	J	Spark Gap	AC
RDA601	PRDAR0277PEFW	J	Heat Sink, Q601	AF
RDA642	PRDAR0274PEFW	J	Heat Sink, D642	AE
RDA646	PRDAR3231CEFW	J	Heat Sink, D646	AE
RDA650	PRDAR0026PEFW	J	Heat Sink, Q650	AD
RDA673	PRDAR0103MEFW	M	Heat Sink, Q673	AH
RDA6501	PRDAR0280PEFW	J	Heat Sink, IC6503	AF
	LX-BZ3100CEFD	J	Screw	AA
	LX-TZ3004CEFD	J	Screw	AA

Ref. No.	Part No.	★	Description	Code

PWB-D: DUNTKA245WEV0
CONTROL UNIT

INTEGRATED CIRCUIT

IC1101	VHiUPC358C/-1	J	UPC358C	AD

DIODES

D1101	RH-PX0383CEZZ	M	Photodiode	AC
D1102	RH-PX0383CEZZ	M	Photodiode	AC
D1105	VHD1SS119//-1	J	Diode	AB
D1106	VHD1SS119//-1	J	Diode	AB
D1107	RH-EX0611GEZZ	J	Zener Diode	AA

CAPACITORS

C1101	VCEA0A0JW107M	J	100	6.3V	Electrolytic	AB
C1102	VCFYSA1HB104J	J	0.1	50V	Mylar	AB
C1103	VCKYPA1HF103Z	J	0.01	50V	Ceramic	AA
C1104	VCFYFA1HA394J	J	0.39	50V	Mylar	AC
C1105	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C1106	VCKYPA1HF103Z	J	0.01	50V	Ceramic	AA
C1107	VCEA0A1CW227M	J	220	16V	Electrolytic	AC

RESISTORS

R1101	VRD-RA2BE562J	J	5.6k	1/8W	Carbon	AA
R1102	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R1103	VRD-RA2BE153J	J	15k	1/8W	Carbon	AA
R1104	VRD-RA2BE333J	J	33k	1/8W	Carbon	AA
R1105	VRD-RA2BE823J	J	82k	1/8W	Carbon	AA
R1106	VRD-RA2BE153J	J	15k	1/8W	Carbon	AA
R1107	VRD-RA2BE153J	J	15k	1/8W	Carbon	AA
R1108	VRD-RA2BE333J	J	33k	1/8W	Carbon	AA
R1109	VRD-RA2BE823J	J	82k	1/8W	Carbon	AA
R1110	VRD-RA2BE101J	J	100	1/8W	Carbon	AB
R1111	VRD-RA2BE561J	J	560	1/8W	Carbon	AA
R1112	VRD-RA2BE750J	J	75	1/8W	Carbon	AA
R1113	VRD-RA2BE274J	J	270k	1/8W	Carbon	AA
R1114	VRD-RA2BE750J	J	75	1/8W	Carbon	AA
R1115	VRD-RA2BE750J	J	75	1/8W	Carbon	AA
R1118	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R1119	VRD-RA2BE225J	J	2.2M	1/8W	Carbon	AA
R1120	VRD-RA2BE154J	J	150k	1/8W	Carbon	AA
R1121	VRD-RA2BE152J	J	1.5k	1/8W	Carbon	AA
R1122	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R1123	VRD-RA2BE333J	J	33k	1/8W	Carbon	AA
R1124	VRD-RA2BE333J	J	33k	1/8W	Carbon	AA
R1125	VRD-RA2BE183J	J	18k	1/8W	Carbon	AA

SWITCHES

S1101	QSW-K0091GEZZ	J	Switch, Power	AC
S1102	QSW-K0091GEZZ	J	Switch, Enter	AC
S1103	QSW-K0091GEZZ	J	Switch, Ch Down	AC
S1104	QSW-K0091GEZZ	J	Switch, Ch Up	AC
S1105	QSW-K0091GEZZ	J	Switch, Vol Down	AC
S1106	QSW-K0091GEZZ	J	Switch, Vol Up	AC
S1107	QSW-K0091GEZZ	J	Switch, Select Menu	AC
S1108	QSW-K0091GEZZ	J	Switch, Select L	AC
S1109	QSW-K0091GEZZ	J	Switch, Select R	AC
S1110	QSW-K0091GEZZ	J	Switch, Select Down	AC
S1111	QSW-K0091GEZZ	J	Switch, Select Up	AC

MISCELLANEOUS PARTS

J1101	QSOCD0406GEZZ	J	Jack	AF
J1102	QJAKE0181CEZZ	M	Jack	AC
J1103	QJAKE0179CEZZ	M	Jack	AC
J1104	QJAKE0180CEZZ	J	Jack	AE
P1101	QPLGN1241CEZZ	J	Plug, 12-pin (RA)	AB
P1102	QPLGN1278GEZZ	J	Plug, 12-pin (RC)	AC
RMC1101	RRMCU0064GEZZ	J	R/C Receiver	AG
E1101	RUNTZ0022CEZZ	J	OPC Sensor	AL

PWB-G: DUNTKA240WEV0
CRT RED UNIT

INTEGRATED CIRCUIT

IC8701	VHiTDA6120Q-1	J	TDA6120Q	AU

TRANSISTORS

Q8701	VS2SC3928R/-1	J	2SC3928R	AB
Q8702	VS2SA1246//1E	J	2SA1246	AE
Q8703	VS2SC4636//1E	J	2SC4636	AM

DIODES

D8701	VHD1SS355//-1	J	Diode	AB
D8702	VHD1SS355//-1	J	Diode	AB
D8703	VHD1SS355//-1	J	Diode	AB
D8704	VHD1SS119//-1	J	Diode	AB
D8705	RH-EX0222CEZZ	J	Zener Diode	AB
D8706	RH-DX0220CEZZ	J	Diode	AB
D8708	RH-DX0220CEZZ	J	Diode	AB

COIL

L8702	RCiLP0227CEZZ	J	Coil	AE

CAPACITORS

[M.P.F.··· Metalized Polyester Film]

C8701	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C8702	VCEA0A1CW337M	J	330	16V	Electrolytic	AC
C8705	VCCCTV1HH270J	J	27p	50V	Ceramic	AA
C8707	VCKYTV1HF104Z	J	0.1	50V	Ceramic	AA
C8708	VCKYTV1HF104Z	J	0.1	50V	Ceramic	AA
C8709	VCCCTV1HH221J	J	220p	50V	Ceramic	AA
C8710	RC-KZ1036CEZZ	J	0.047	250V	Ceramic	AE
C8711	VCFYAA2EA104J	J	0.1	250V	M.P.F.	AD
C8712	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C8713	VCKYPA1HF103Z	J	0.01	50V	Ceramic	AA
C8714	VCEA0A1CW108M	J	1000	16V	Electrolytic	AD
C8716	VCEAGH2EW476M	J	47	250V	Electrolytic	AE
C8717	RC-KZ018JCEZZ	J	0.01	250V	Ceramic	AC

RESISTORS

R8702	VRS-TV1JD152J	J	1.5k	1/16W	Metal Oxide	AA
R8703	VRS-TV1JD101J	J	100	1/16W	Metal Oxide	AA
R8704	VRS-TV1JD153J	J	15k	1/16W	Metal Oxide	AA
R8705	VRS-TV1JD472J	J	4.7k	1/16W	Metal Oxide	AA
R8706	VRS-TV1JD152J	J	1.5k	1/16W	Metal Oxide	AA
R8707	VRS-TV1JD223J	J	22k	1/16W	Metal Oxide	AA
R8708	VRS-TV1JD101J	J	100	1/16W	Metal Oxide	AA
R8710	VRS-TV1JD681J	J	680	1/16W	Metal Oxide	AA
R8711	VRS-TV1JD000J	J	0	1/16W	Metal Oxide	AA
R8712	VRS-TV1JD681J	J	680	1/16W	Metal Oxide	AA
R8713	VRD-RA2BE223J	J	22k	1/8W	Carbon	AA
R8714	VRD-RA2BE101J	J	100	1/8W	Carbon	AB
R8715	VRD-RA2BE183J	J	18k	1/8W	Carbon	AA
R8716	VRD-RA2BE223J	J	22k	1/8W	Carbon	AA
R8718	VRC-MA2HG224J	J	220k	1/2W	Solid	AA
R8719	VRD-RA2BE470J	J	47	1/8W	Carbon	AA
⚠ R8720	VRS-KA3HG223J	J	22k	5W	Metal Oxide	AD
R8723	VRC-MA2HG331K	J	330	1/2W	Solid	AA
R8724	VRC-MA2HG224K	J	220k	1/2W	Solid	AA

MISCELLANEOUS PARTS

FB8701	RBLN-0037CEZZ	J	Ferrite Bead	AB
FB8702	RBLN-0037CEZZ	J	Ferrite Bead	AB
P8701	QPLGN0441CEZZ	J	Plug, 4-pin (CR)	AB
P8702	QTiPM0083CEZZ	J	Tip (L1)	AB
P8704	QTiPM0083CEZZ	J	Tip (K8702)	AB
P8705	QPLGN0641CEZZ	J	Plug, 6-pin (NA)	AB
P8708	QTiPM0083CEZZ	J	Tip (L5)	AB
SC8701	QSOCV0919CEZZ	J	CRT Socket	AH
⚠ SG8701	QSPGC0015CEZZ	J	Spark Gap	AB
⚠ SG8702	QSPGC0015CEZZ	J	Spark Gap	AB
⚠ SG8703	QSPGC0015CEZZ	J	Spark Gap	AB
SLD8701	PSLDM0018MEFW	M	Shield	AC
RDA8701	PRDAR0105MEFW	M	Heat Sink, IC8701	AE
	LX-BZ0086TAFD	J	Screw	AA

PWB-H: DUNTKA242WEV0
CRT BLUE UNIT

Ref. No.	Part No.	★	Description	Code
INTEGRATED CIRCUIT				
IC8901	VHiTDA6120Q-1	J	TDA6120Q	AU
TRANSISTORS				
Q8901	VS2SC3928R/-1	J	2SC3928R	AB
Q8902	VS2SA1246//1E	J	2SA1246	AE
Q8903	VS2SC4636//1E	J	2SC4636	AM
DIODES				
D8901	VHD1SS355//-1	J	Diode	AB
D8902	VHD1SS355//-1	J	Diode	AB
D8903	VHD1SS355//-1	J	Diode	AB
D8904	VHD1SS119//-1	J	Diode	AB
D8905	RH-EX0222CEZZ	J	Zener Diode	AB
D8906	RH-DX0220CEZZ	J	Diode	AB
D8908	RH-DX0220CEZZ	J	Diode	AB
COIL				
L8902	RCiLP0227CEZZ	J	Coil	AE
CAPACITORS				
[M.P.F.··· Metalized Polyester Film]				
C8901	VCEA0A1CW106M	J	10 16V Electrolytic	AB
C8902	VCEA0A1CW337M	J	330 16V Electrolytic	AC
C8905	VCCCTV1HH270J	J	27p 50V Ceramic	AA
C8907	VCKYTV1HF104Z	J	0.1 50V Ceramic	AA
C8908	VCKYTV1HF104Z	J	0.1 50V Ceramic	AA
C8909	VCCCTV1HH221J	J	220p 50V Ceramic	AA
C8911	VCFYAA2EA104J	J	0.1 250V M.P.F.	AD
C8912	VCEA0A1CW476M	J	47 16V Electrolytic	AB
C8913	VCKYPA1HF103Z	J	0.01 50V Ceramic	AA
C8914	VCEA0A1CW108M	J	1000 16V Electrolytic	AD
C8916	VCEAGH2EW476M	J	47 250V Electrolytic	AE
C8917	RC-KZ018JCEZZ	J	0.01 250V Ceramic	AC
RESISTORS				
R8902	VRS-TV1JD152J	J	1.5k 1/16W Metal Oxide	AA
R8903	VRS-TV1JD101J	J	100 1/16W Metal Oxide	AA
R8904	VRS-TV1JD153J	J	15k 1/16W Metal Oxide	AA
R8905	VRS-TV1JD472J	J	4.7k 1/16W Metal Oxide	AA
R8906	VRS-TV1JD152J	J	1.5k 1/16W Metal Oxide	AA
R8907	VRS-TV1JD223J	J	22k 1/16W Metal Oxide	AA
R8908	VRS-TV1JD101J	J	100 1/16W Metal Oxide	AA
R8910	VRS-TV1JD681J	J	680 1/16W Metal Oxide	AA
R8911	VRS-TV1JD000J	J	0 1/16W Metal Oxide	AA
R8912	VRS-TV1JD681J	J	680 1/16W Metal Oxide	AA
R8913	VRD-RA2BE223J	J	22k 1/8W Carbon	AA
R8914	VRD-RA2BE101J	J	100 1/8W Carbon	AB
R8915	VRD-RA2BE183J	J	18k 1/8W Carbon	AA
R8916	VRD-RA2BE223J	J	22k 1/8W Carbon	AA
R8918	VRC-MA2HG224J	J	220k 1/2W Solid	AA
R8919	VRD-RA2BE470J	J	47 1/8W Carbon	AA
⚠ R8920	VRS-KA3HG223J	J	22k 5W Metal Oxide	AD
R8923	VRC-MA2HG331K	J	330 1/2W Solid	AA
R8924	VRC-MA2HG224K	J	220k 1/2W Solid	AA
MISCELLANEOUS PARTS				
FB8901	RBLN-0037CEZZ	J	Ferrite Bead	AB
FB8902	RBLN-0037CEZZ	J	Ferrite Bead	AB
P8901	QPLGN0441CEZZ	J	Plug, 4-pin (CB)	AB
P8902	QTiPM0083CEZZ	J	Tip (L1)	AB
P8903	QTiPM0083CEZZ	J	Tip (L6)	AB
P8904	QTiPM0083CEZZ	J	Tip (K8902)	AB
P8905	QPLGN0541CEZZ	J	Plug, 5-pin (NB)	AB
SC8901	QSOCV0919CEZZ	J	CRT Socket	AH
⚠ SG8901	QSPGC0015CEZZ	J	Spark Gap	AB
⚠ SG8902	QSPGC0015CEZZ	J	Spark Gap	AB
⚠ SG8903	QSPGC0015CEZZ	J	Spark Gap	AB
SLD8901	PSLDM0018MEFW	M	Shield	AC
RDA8901	PRDAR0105MEFW	M	Heat Sink, IC8901	AE
	LX-BZ0086TAFD	J	Screw	AA

PWB-I: DUNTK9890WEW1
3D Y/C SEPARATE UNIT

Ref. No.	Part No.	★	Description	Code
INTEGRATED CIRCUITS				
IC7001	VHiPD64082/-1	J	UPD64082GF-3BA	BC
IC7002	RH-iX3152CEZZ	J	I.C.	AT
IC7003	VHiTK15420/-1	J	TK15420MTl	AG
IC7007	VHiBA033T//-1	J	BA033T	AF
TRANSISTORS				
Q7001	VS2SA1530AR-1	J	2SA1530AR	AB
Q7002	VS2SC3928AR-1	J	2SC3928AR	AB
Q7003	VS2SA1530AR-1	J	2SA1530AR	AB
Q7004	VS2SC3928AR-1	J	2SC3928AR	AB
Q7005	VS2SA1530AR-1	J	2SA1530AR	AB
Q7012	VS2SA1530AR-1	J	2SA1530AR	AB
Q7013	VS2SA1530AR-1	J	2SA1530AR	AB
Q7014	VS2SA1530AR-1	J	2SA1530AR	AB
Q7015	VS2SA1530AR-1	J	2SA1530AR	AB
Q7016	VS2SA1530AR-1	J	2SA1530AR	AB
Q7070	VS2SC3928AR-1	J	2SC3928AR	AB
PACKAGED CIRCUIT				
X7001	RCRSB0258CEZZ	J	Crystal	AG
FILTERS AND COILS				
FL7001	RFiLC0274CEZZ	J	Filter	AG
FL7002	RCiLV0021TAZZ	J	Coil	AE
FL7003	RFiLN0014GEZZ	J	Filter	AC
FL7004	RFiLN0014GEZZ	J	Filter	AC
L7001	VPACK100J0000	J	Peaking 10µH	AB
L7002	VPACK4R7J0000	J	Peaking 4.7µH	AB
L7050	VPACK220J0000	J	Peaking 22µH	AB
L7051	VPACK220J0000	J	Peaking 22µH	AB
CONTROL				
R7000	RVR-M4328CEZZ	J	1k (B) Video Level	AC
CAPACITORS				
C7001	VCCCCY1HH330J	J	33p 50V Ceramic	AA
C7002	VCCCCY1HH270J	J	27p 50V Ceramic	AA
C7003	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C7004	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C7005	VCEAEA1CW106M	J	10 16V Electrolytic	AB
C7006	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C7008	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C7009	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C7010	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C7012	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C7013	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C7014	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C7015	VCEAEA1CW106M	J	10 16V Electrolytic	AB
C7016	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C7017	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C7018	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C7019	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C7020	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C7021	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C7022	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C7023	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C7025	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C7026	VCCCCY1HH471J	J	470p 50V Ceramic	AA
C7027	VCEAEA1HW105M	J	1.0 50V Electrolytic	AB
C7028	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C7029	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C7030	VCEA0A1CW476M	J	47 16V Electrolytic	AB
C7031	VCE9EA1CW106M	J	10 16V Elect.(N.P)	AC
C7033	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C7035	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C7036	VCEA0A1CW476M	J	47 16V Electrolytic	AB
C7037	VCCCCY1HH120J	J	12p 50V Ceramic	AA
C7038	VCCCCY1HH270J	J	27p 50V Ceramic	AA
C7039	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C7041	VCCCCY1HH3R0C	J	3.0p 50V Ceramic	AA

PWB-I: DUNTK9890WEW1

3D Y/C SEPARATE UNIT(Continued)

Ref. No.	Part No.	★	Description			Code
C7042	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C7043	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C7045	VCEA0A0JW107M	J	100	6.3V	Electrolytic	AB
C7046	VCEA0A0JW476M	J	47	6.3V	Electrolytic	AB
C7047	RC-EZ0459CEZZ	J	10	10V	Electrolytic	AE
C7048	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C7050	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C7053	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C7055	RC-EZ0459CEZZ	J	10	10V	Electrolytic	AE
C7056	RC-EZ0459CEZZ	J	10	10V	Electrolytic	AE
C7057	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C7060	VCCCCY1HH391J	J	390p	50V	Ceramic	AA
C7061	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C7062	VCCCCY1HH3R0C	J	3.0p	50V	Ceramic	AA
C7064	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C7067	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C7075	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C7076	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C7077	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C7078	VCCCCY1HH270J	J	27p	50V	Ceramic	AA

RESISTORS

R7001	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R7003	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R7004	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R7009	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R7010	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R7020	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R7021	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R7022	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R7023	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R7024	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R7025	VRS-CY1JF224J	J	220k	1/16W	Metal Oxide	AA
R7026	VRS-CY1JF221J	J	220	1/16W	Metal Oxide	AA
R7027	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R7028	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R7029	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R7030	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R7031	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R7032	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R7033	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R7034	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R7036	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R7037	VRS-CY1JF202J	J	2.0k	1/16W	Metal Oxide	AA
R7045	VRS-CY1JF202J	J	2.0k	1/16W	Metal Oxide	AA
R7046	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R7047	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R7048	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R7049	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R7051	VRS-CY1JF911J	J	910	1/16W	Metal Oxide	AA
R7052	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R7055	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA
R7056	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R7058	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R7059	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R7060	VRS-CY1JF911J	J	910	1/16W	Metal Oxide	AA
R7062	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R7064	VRS-CY1JF181J	J	180	1/16W	Metal Oxide	AA
R7066	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R7067	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R7070	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R7071	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R7072	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R7073	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R7074	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R7077	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R7078	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R7080	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R7081	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R7083	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R7085	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R7086	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R7087	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA

MISCELLANEOUS PARTS

R7040	RBLN-0061TAZZ	J	Ferrite Bead	AD
R7082	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB7050	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB7051	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB7052	RBLN-0061TAZZ	J	Ferrite Bead	AD
P7001	QPLGN0247FJ00	J	Plug, 15-PIN (YC)	AF
SLD7001	PSLDM0286PEFW	J	Shield	AD
SLD7002	PSLDM0287PEFW	J	Shield	AD
SLD7003	PSLDM0288PEFW	J	Shield	AD

PWB-J: DUNTKA234WEV0

POWER UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
⚠ IC701	VHiSTRF66291E	J	STR-F6629B	AT
⚠ IC702	RH-FX0029CEZZ	J	PS2501-1	AE
⚠ IC715	RH-FX0029CEZZ	J	PS2501-1	AE
⚠ IC741	VHiSE130N//-1	J	SE130N	AF
⚠ IC9901	VHiSTRF66291E	J	STR-F6629B	AT
⚠ IC9902	RH-FX0029CEZZ	J	PS2501-1	AE
IC9941	VHiKiA431//-1	J	KIA431	AE
IC9970	VHiPQ1CG2031E	J	PQ1CG2032RZ	AK

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q714	VS2SC3198-G-1	J	2SC3198-G	AA
Q715	VS2SC3198-G-1	J	2SC3198-G	AA
Q780	VS2SA1266-Y-1	J	2SA1266-Y	AA
Q781	VSDTC124ES/-1	J	DTC124ES	AB
Q782	VSDTC124ES/-1	J	DTC124ES	AB
Q9980	VS2SA1266-Y-1	J	2SA1266-Y	AA
Q9981	VS2SC3198-G-1	J	2SC3198-G	AA

DIODES

Ref. No.	Part No.	★	Description	Code
D701	RH-EX0366GEZZ	J	Zener Diode	AA
D702	RH-EX0207CEZZ	J	Zener Diode	AA
⚠ D703	RH-DX0504CEZZ	J	Diode	AH
D704	RH-DX0066GEZZ	J	Diode	AB
D705	RH-DX0321CEZZ	J	Diode	AC
D706	VHD1SS244//-1	J	Diode	AB
D707	VHD1SS244//-1	J	Diode	AB
D708	RH-EX0622GEZZ	J	Zener Diode	AA
D709	RH-DX0066GEZZ	J	Diode	AB
D721	RH-EX0207CEZZ	J	Zener Diode	AA
D722	RH-EX0654GEZZ	J	Zener Diode	AB
⚠ D723	RH-DX0452CEZZ	J	Diode	AH
D9901	RH-EX0366GEZZ	J	Zener Diode	AA
D9902	RH-EX0207CEZZ	J	Zener Diode	AA
D9904	RH-DX0066GEZZ	J	Diode	AB
D9905	RH-DX0321CEZZ	J	Diode	AC
D9906	VHD1SS244//-1	J	Diode	AB
D9907	VHD1SS244//-1	J	Diode	AB
D9908	RH-EX0622GEZZ	J	Zener Diode	AA
D9921	VHD1SS119//-1	J	Diode	AB
D9922	RH-EX0660GEZZ	J	Zener Diode	AC
D9923	VHD1SS119//-1	J	Diode	AB
D9924	RH-EX0638GEZZ	J	Zener Diode	AB
D9931	RH-DX0066GEZZ	J	Diode	AB
⚠ D9940	RH-DX0398CEZZ	J	Diode	AG
D9950	RH-DX0066GEZZ	J	Diode	AB
D9951	RH-DX0295CEZZ	J	Diode	AD
D9952	RH-DX0066GEZZ	J	Diode	AB
D9970	RH-DX0473CEZZ	J	Diode	AK
⚠ D9971	RH-DX0486CEZZ	J	Diode	AH
⚠ D9972	RH-DX0486CEZZ	J	Diode	AH
⚠ D9973	RH-DX0468CEZZ	J	Diode	AE
D9980	VHD1SS119//-1	J	Diode	AB
D9981	VHD1SS119//-1	J	Diode	AB
D9982	VHD1SS119//-1	J	Diode	AB
D9983	RH-EX0207CEZZ	J	Zener Diode	AA
D9984	VHD1SS119//-1	J	Diode	AB
D9985	VHD1SS119//-1	J	Diode	AB
D9986	RH-EX0362GEZZ	J	Zener Diode	AA
D9987	VHD1SS119//-1	J	Diode	AB
D9988	VHD1SS119//-1	J	Diode	AB
D9989	RH-EX0660GEZZ	J	Zener Diode	AC
D9990	VHD1SS119//-1	J	Diode	AB
D9991	RH-EX0631GEZZ	J	Zener Diode	AA
D9992	RH-EX0618GEZZ	J	Zener Diode	AA
D9993	VHD1SS119//-1	J	Diode	AB
D9994	VHD1SS119//-1	J	Diode	AB
D9995	VHD1SS119//-1	J	Diode	AB
D9996	VHD1SS119//-1	J	Diode	AB

COILS AND TRANSFORMERS

Ref. No.	Part No.	★	Description	Code
⚠ L701	RTRNC0082CEZZ	J	Coil	AS
L720	RCiLP0191CEZZ	J	Coil	AD
L771	RCiLP0184CEZZ	J	Coil	AE
L9920	RCiLP0191CEZZ	J	Coil	AD
L9930	RCiLP0191CEZZ	J	Coil	AD
L9931	RCiLP0236CEZZ	J	Coil	AE
L9940	RCiLP0191CEZZ	J	Coil	AD
L9950	RCiLP0191CEZZ	J	Coil	AD
L9970	RCiLP0366CEZZ	J	Coil	AG
⚠ T701	RTRNW0002CEZZ	M	Transformer	AM
⚠ T9901	RTRNW0003CEZZ	M	Transformer	AM

CAPACITORS

[P.F.…Polyester Film, M.P.F.…Metalized Polyester Film]

Ref. No.	Part No.	★				Code
C701	VCKYPA2HB471K	J	470p	500V	Ceramic	AA
⚠ C702	RC-KZ0016CEZZ	J	0.01	250V	Ceramic	AC
C703	RC-KZ0290CEZZ	J	150p	2kV	Ceramic	AC
⚠ C704	RC-KZ0016CEZZ	J	0.01	250V	Ceramic	AC
C705	RC-EZ0617CEZZ	M	1000	200V	Electrolytic	AQ
C706	VCFPVC3CA332H	J	3300p	1.6kV	M.P.F	AD
C707	VCEA0A1VW107M	J	100	35V	Electrolytic	AC
C708	VCQYTA1HM272J	J	2700p	50V	Mylar	AA
C709	VCQPPB2GB473K	J	0.047	400V	P.F.	AD
C710	RC-KZ0300CEZZ	J	1000p	2kV	Ceramic	AC
C711	VCKYPA1HB331K	J	330p	50V	Ceramic	AA
C712	RC-KZ0290CEZZ	J	150p	2kV	Ceramic	AC
⚠ C715	RC-KZ0093GEZZ	J	4700p	2kV	Ceramic	AD
⚠ C716	RC-KZ0093GEZZ	J	4700p	2kV	Ceramic	AD
C717	VCQYTA1HM104K	J	0.1	50V	Mylar	AC
C718	VCQYTA2AA104K	J	0.1	100V	Mylar	AB
C721	RC-KZ0300CEZZ	J	1000p	2kV	Ceramic	AC
C722	RC-EZ1278CEZZ	J	330	180V	Electrolytic	AH
C724	RC-KZ0300CEZZ	J	1000p	2kV	Ceramic	AC
C727	RC-EZ1277CEZZ	J	220	180V	Electrolytic	AH
C741	VCEA0A2AW105M	J	1.0	100V	Electrolytic	AB
C772	VCEA0A1AW107M	J	100	10V	Electrolytic	AB
C9901	VCKYPA2HB471K	J	470p	500V	Ceramic	AA
C9903	RC-KZ0290CEZZ	J	150p	2kV	Ceramic	AC
C9905	RC-EZ0617CEZZ	M	1000	200V	Electrolytic	AQ
C9906	VCFPVC3CA332H	J	3300p	1.6kV	M.P.F.	AD
C9907	VCEA0A1VW107M	J	100	35V	Electrolytic	AC
C9908	VCQYTA1HM272J	J	2700p	50V	Mylar	AA
C9909	VCQPPB2GB473K	J	0.047	400V	P.F.	AD
C9910	RC-KZ0300CEZZ	J	1000p	2kV	Ceramic	AC
C9911	VCKYPA1HB331K	J	330p	50V	Ceramic	AA
C9912	RC-KZ0290CEZZ	J	150p	2kV	Ceramic	AC
C9920	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
C9921	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
C9922	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
C9923	RC-EZ1133CEZZ	M	2200	50V	Electrolytic	AG
C9924	RC-EZ1133CEZZ	M	2200	50V	Electrolytic	AG
C9930	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
C9931	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
C9932	RC-EZ1133CEZZ	M	2200	50V	Electrolytic	AG
C9933	RC-EZ1133CEZZ	M	2200	50V	Electrolytic	AG
C9940	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
C9941	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
C9942	RC-EZ1090CEZZ	M	3300	16V	Electrolytic	AE
C9943	RC-EZ1088CEZZ	J	2200	16V	Electrolytic	AF
C9944	VCKYPA1HF103Z	J	0.01	50V	Ceramic	AA
C9950	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
C9951	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
C9952	RC-EZ1133CEZZ	M	2200	50V	Electrolytic	AG
C9953	VCE9GA1HW105M	J	1.0	50V	Elect.(N.P)	AB
C9954	RC-EZ1133CEZZ	M	2200	50V	Electrolytic	AG
C9970	VCEA0A1EW228M	J	2200	25V	Electrolytic	AF
C9971	RC-EZ1071CEZZ	J	680	10V	Electrolytic	AD
C9972	VCEA0A2AW106M	J	10	100V	Electrolytic	AC
C9980	VCEA0A1VW476M	J	47	35V	Electrolytic	AB
C9981	VCEA0A1VW477M	J	470	35V	Electrolytic	AB
C9982	VCEA0A1VW477M	J	470	35V	Electrolytic	AB
C9983	VCEA0A1VW476M	J	47	35V	Electrolytic	AB

PWB-J: DUNTKA234WEV0

POWER UNIT (Continued)

RESISTORS

Ref. No.	Part No.	★			Description	Code
⚠ R701	VRN-VV3DBR10J	J	0.1	2W	Metal Film	AB
⚠ R702	VRN-VV3DBR22J	J	0.22	2W	Metal Film	AB
R703	VRS-SV2HC681J	J	680	1/2W	Metal Oxide	AA
⚠ R704	VRS-VV3DB183J	J	18k	2W	Metal Oxide	AA
R705	VRN-GA2EB1R0J	J	1.0	1/4W	Metal Film	AA
R706	VRD-RM2HD334J	J	330k	1/2W	Carbon	AA
R707	VRD-RA2EE102J	J	1.0k	1/4W	Carbon	AA
⚠ R708	VRS-KT3LB333J	J	33k	3W	Metal Oxide	AC
R709	VRD-RA2EE122J	J	1.2k	1/4W	Carbon	AA
R710	VRD-RA2EE272J	J	2.7k	1/4W	Carbon	AA
R711	VRS-SV2HC390J	J	39	1/2W	Metal Oxide	AA
⚠ R712	VRC-UB2HG395K	J	3.9M	1/2W	Solid	AC
R713	VRD-RM2HD563J	J	56k	1/2W	Carbon	AA
R714	VRD-RA2BE223J	M	22k	1/8W	Carbon	AA
R716	VRD-RM2HD334J	J	330k	1/2W	Carbon	AA
⚠ R717	VRS-VV3DB222J	J	2.2k	2W	Metal Oxide	AA
R718	VRW-KQ41A1R0K	J	1.0	15W	Cement	AE
R741	VRD-RA2BE182J	J	1.8k	1/8W	Carbon	AA
R742	VRD-RM2HD470J	J	47	1/2W	Carbon	AA
⚠ R743	VRS-VV3DB183J	J	18k	2W	Metal Oxide	AA
R746	VRN-RA2BK102F	J	1.0k	1/8W	Metal Film	AA
R780	VRD-RA2EE563J	J	56k	1/4W	Carbon	AA
R781	VRD-RA2EE472J	J	4.7k	1/4W	Carbon	AA
R782	VRD-RA2BE223J	J	22k	1/8W	Carbon	AA
R783	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R9901	VRN-VV3DBR10J	J	0.1	2W	Metal Film	AB
R9902	VRN-VV3DBR22J	J	0.22	2W	Metal Film	AB
R9903	VRS-SV2HC681J	J	680	1/2W	Metal Oxide	AA
R9904	VRS-VV3DB183J	J	18k	2W	Metal Oxide	AA
R9905	VRN-GA2EB1R0J	J	1.0	1/4W	Metal Film	AA
R9907	VRD-RA2EE102J	J	1.0k	1/4W	Carbon	AA
⚠ R9908	VRS-KT3LB333J	J	33k	3W	Metal Oxide	AC
R9909	VRD-RA2EE122J	J	1.2k	1/4W	Carbon	AA
R9910	VRD-RA2EE272J	J	2.7k	1/4W	Carbon	AA
R9911	VRS-SV2HC390J	J	39	1/2W	Metal Oxide	AA
R9912	VRD-RM2HD334J	J	330k	1/2W	Carbon	AA
R9913	VRD-RM2HD334J	J	330k	1/2W	Carbon	AA
R9914	VRD-RM2HD563J	J	56k	1/2W	Carbon	AA
R9915	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R9916	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R9941	VRD-RA2BE182J	J	1.8k	1/8W	Carbon	AA
R9942	VRN-RA2BK332F	J	3.3k	1/8W	Metal Film	AA
R9944	VRD-RM2HD152J	J	1.5k	1/2W	Carbon	AA
R9950	VRD-RM2HD392J	J	3.9k	1/2W	Carbon	AA
R9951	VRD-RM2HD182J	J	1.8k	1/2W	Carbon	AA
R9952	VRD-RM2HD182J	J	1.8k	1/2W	Carbon	AA
R9972	VRN-RA2BK102F	J	1.0k	1/8W	Metal Film	AB
R9973	VRN-RA2BK472F	J	4.7k	1/8W	Metal Film	AA
R9979	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R9980	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	AA
R9981	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R9982	VRD-RA2BE563J	J	56k	1/8W	Carbon	AA
R9983	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R9984	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R9985	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R9986	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R9987	VRD-RA2BE333J	J	33k	1/8W	Carbon	AA
R9988	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R9989	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R9990	VRD-RM2HD182J	J	1.8k	1/2W	Carbon	AA
R9991	VRD-RM2HD182J	J	1.8k	1/2W	Carbon	AA
R9992	VRD-RM2HD182J	J	1.8k	1/2W	Carbon	AA
R9993	VRD-RM2HD182J	J	1.8k	1/2W	Carbon	AA
R9994	VRD-RA2BE563J	J	56k	1/8W	Carbon	AA
R9995	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	AA
R9996	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R9997	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R9998	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
FB701	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB702	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB703	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB704	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB705	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB720	RBLN-0057CEZZ	J	Ferrite Bead	AC
FB721	RBLN-0057CEZZ	J	Ferrite Bead	AC
FB771	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB9901	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB9902	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB9903	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB9904	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB9905	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB9920	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB9921	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB9922	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB9930	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB9931	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB9932	RBLN-0057CEZZ	J	Ferrite Bead	AC
FB9940	RBLN-0057CEZZ	J	Ferrite Bead	AC
FB9941	RBLN-0057CEZZ	J	Ferrite Bead	AC
FB9950	RBLN-0057CEZZ	J	Ferrite Bead	AC
FB9951	RBLN-0057CEZZ	J	Ferrite Bead	AC
FB9970	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB9971	RBLN-0057CEZZ	J	Ferrite Bead	AC
P702	QPLGN0304CEZZ	J	Plug, 3-pin (EB)	AB
P9901	QPLGN0741CEZZ	J	Plug, 7-pin (LB)	AC
P9902	QPLGN1041CEZZ	J	Plug, 10-pin (LC)	AC
P9903	QPLGN0841CEZZ	J	Plug, 8-pin (LD)	AB
P9904	QPLGN0641CEZZ	J	Plug, 6-pin (LE)	AB
SC721	QPLGN0841CEZZ	J	Plug, 8-pin (LA)	AB
RDA700	PRDAR0083PEFW	J	Heat Sink, D723	AD
RDA701	PRDAR0273PEFW	J	Heat Sink, IC701	AK
RDA703	PRDAR1555CEFW	J	Heat Sink, D703	AF
RDA9901	PRDAR0294PEFW	J	Heat Sink, IC9901	AF
RDA9921	PRDAR0259PEFW	J	Heat Sink, D9972	AE
RDA9931	PRDAR0259PEFW	J	Heat Sink, D9971	AE
RDA9941	PRDAR0108MEFW	M	Heat Sink, D9940	AC
RDA9970	PRDAR0303PEFW	J	Heat Sink, IC9970	AD
	LX-BZ0086TAFD	J	Screw	AA
	LX-BZ3100CEFD	J	Screw	AA

Ref. No.	Part No.	★	Description	Code

PWB-M: DUNTKA235WEV0
SUB POWER UNIT

UNIT

⚠ UNT1701	RUNTK0682CEZZ	J	+6V Back Up Unit		AR

INTEGRATED CIRCUIT

⚠ IC1753	RH-FX0047CEZZ	J	PC817		AD

TRANSISTORS

Q1701	VSDTC124ES/-1	J	DTC124ES		AB
Q1702	VS2SA1266-Y-1	J	2SA1266-Y		AA
Q1703	VS2SA1266-Y-1	J	2SA1266-Y		AA
Q1704	VS2SC3198-G-1	J	2SC3198-G		AA
Q1705	VS2SC3198-G-1	J	2SC3198-G		AA

DIODES

D1703	RH-DX0407CEZZ	J	Diode		AD
D1704	RH-DX0407CEZZ	J	Diode		AD
D1705	RH-EX0619GEZZ	J	Zener Diode		AA
D1706	RH-EX0640GEZZ	J	Zener Diode		AA
⚠ D1751	RH-DX0083GEZZ	J	Diode		AC
D1752	RH-DX0441CEZZ	J	Diode		AC
⚠ VA1751	RH-VX0019CEZZ	J	Varistor		AC

COILS

L1701	RCiLP0238CEZZ	J	Coil		AE
⚠ L1751	RCiLF0314CEZZ	J	Coil		AL
⚠ L1752	RCiLF0314CEZZ	J	Coil		AL
⚠ L1753	RCiLF0314CEZZ	J	Coil		AL

CAPACITORS

[M.P.F.··· Metalized Polyester Film]

C1702	VCEA0A1CW477M	J	470	16V	Electrolytic	AC
C1703	VCEA0A1CW477M	J	470	16V	Electrolytic	AC
C1704	VCEA0A1AW227M	J	220	10V	Electrolytic	AB
C1706	VCQYTA1HM104K	J	0.1	50V	Mylar	AC
⚠ C1751	RC-FZ017SCEZZ	J	0.22	275V	M.P.F.	AD
⚠ C1752	RC-KZ0091GEZZ	J	2200p	250V	Ceramic	AC
⚠ C1753	RC-KZ0091GEZZ	J	2200p	250V	Ceramic	AC
C1754	VCKYPA2HB103K	J	0.01	500V	Ceramic	AA
⚠ C1762	RC-KZ016SCEZZ	J	470p	250V	Ceramic	AD
C1764	VCEA0A2DW475M	J	4.7	200V	Electrolytic	AD

RESISTORS

R1701	VRN-SV2HC1R5J	J	1.5	1/2W	Metal Film	AB
R1702	VRN-SV2HCR82J	J	0.82	1/2W	Metal Film	AA
R1703	VRD-RA2BE563J	J	56k	1/8W	Carbon	AA
R1704	VRD-RA2BE563J	J	56k	1/8W	Carbon	AA
R1705	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R1706	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R1707	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R1708	VRD-RM2HD331J	J	330	1/2W	Carbon	AA
R1709	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA
R1710	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R1713	VRD-RA2BE223J	J	22k	1/8W	Carbon	AA
R1752	VRD-RM2HD473J	J	47k	1/2W	Carbon	AA
R1753	VRD-RM2HD473J	J	47k	1/2W	Carbon	AA
R1754	VRW-KE3DC100J	M	10	2W	Cement	AC

MISCELLANEOUS PARTS

⚠ RY1751	RRLYJ0089CEZZ	J	Relay		AG
⚠ F1751	QFS-B5023CEZZ	J	Fuse, 5A-125V		AC
FB1751	RBLN-0037CEZZ	J	Ferrite Bead		AB
FH1751	QFSHD1013CEZZ	J	Fuse Holder		AC
FH1752	QFSHD1014CEZZ	J	Fuse Holder		AC
P1701	QPLGN0269GEZZ	J	Plug, 2-pin (P)		AB
P1702	QTiPM0083CEZZ	J	Tip (AG)		AB
P1703	QPLGN0304CEZZ	J	Plug, 3-pin (EB)		AB
P1704	QPLGN0641CEZZ	J	Plug, 6-pin (OC)		AB

Ref. No.	Part No.	★	Description	Code

PWB-N: DUNTKA238WEV0
AUDIO UNIT

INTEGRATED CIRCUITS

IC3801	VHiQS7785CF-1	J	QS7785CF		AV
IC3802	VHiBA15218F-1	J	BA15218F		AD
IC3803	VHiAN5285K/-1	J	AN5285K		AP
IC3804	VHiTHC4066F-1	J	TC74HC4066AF		AD
IC3806	VHiPQ09RD08-1	J	PQ09RD08		AF
IC3807	VHiPQ05RD08-1	J	PQ05RD08		AF
IC3808	VHiM62393FP-1	J	M62393FP		AK
IC3809	VHiBA15218F-1	J	BA15218F		AD
IC3810	VHiCXA1352A-1	J	CXA1352AS		AM

TRANSISTORS

Q3801	VS2SC3928AR-1	J	2SC3928AR		AB
Q3802	VS2SA1530AR-1	J	2SA1530AR		AB
Q3803	VS2SC3928AR-1	J	2SC3928AR		AB

CAPACITORS

C3801	VCKYTV1CB224K	J	0.22	16V	Ceramic	AB
C3802	VCKYTV1CB224K	J	0.22	16V	Ceramic	AB
C3803	VCKYTV1CB224K	J	0.22	16V	Ceramic	AB
C3804	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C3805	VCKYCY1HB272K	J	2700p	50V	Ceramic	AA
C3806	VCKYCY1CB823K	J	0.082	16V	Ceramic	AH
C3807	VCKYCY1HB123K	J	0.012	50V	Ceramic	AB
C3808	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C3809	VCKYCY1HB822K	J	8200p	50V	Ceramic	AB
C3810	VCKYCY1HB822K	J	8200p	50V	Ceramic	AB
C3811	VCKYCY1HB822K	J	8200p	50V	Ceramic	AB
C3812	VCKYCY1HB822K	J	8200p	50V	Ceramic	AB
C3813	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C3814	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C3815	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C3816	VCKYCY1HB272K	J	2700p	50V	Ceramic	AA
C3817	VCKYCY1CB823K	J	0.082	16V	Ceramic	AH
C3818	VCKYCY1HB822K	J	8200p	50V	Ceramic	AB
C3819	VCKYCY1HB822K	J	8200p	50V	Ceramic	AB
C3820	VCKYCY1HB332K	J	3300p	50V	Ceramic	AA
C3821	VCKYCY1HB332K	J	3300p	50V	Ceramic	AA
C3822	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3823	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3824	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3825	VCEA0A1HW475M	J	4.7	50V	Electrolytic	AB
C3826	VCEA0A1HW475M	J	4.7	50V	Electrolytic	AB
C3827	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3828	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3830	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C3832	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3833	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3834	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C3835	VCKYTV1CB334K	J	0.33	16V	Ceramic	AC
C3837	VCKYTV1CB224K	J	0.22	16V	Ceramic	AB
C3839	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C3840	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3841	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3842	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C3844	VCKYTV1CB334K	J	0.33	16V	Ceramic	AC
C3845	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C3846	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C3851	VCE9GA1HW475M	J	4.7	50V	Elect.(N.P)	AB
C3852	VCE9GA1HW475M	J	4.7	50V	Elect.(N.P)	AB
C3853	VCEA0A1HW475M	J	4.7	50V	Electrolytic	AB
C3854	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C3855	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3856	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C3857	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C3858	VCE9GA1HW475M	J	4.7	50V	Elect.(N.P)	AB
C3859	VCE9GA1HW475M	J	4.7	50V	Elect.(N.P)	AB
C3876	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3881	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3882	VCEA0A1HW475M	J	4.7	50V	Electrolytic	AB

PWB-N: DUNTKA238WEV0

AUDIO UNIT (Continued)

Ref. No.	Part No.	★				Code
C3883	VCEA0A1HW475M	J	4.7	50V	Electrolytic	AB
C3884	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C3885	VCEA0A1CW226M	J	22	16V	Electrolytic	AB
C3886	VCKYTV1CB224K	J	0.22	16V	Ceramic	AB
C3887	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3888	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C3889	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3890	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C3891	VCEA0A0JW476M	J	47	6.3V	Electrolytic	AB
C3892	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C3893	VCEA0A1HW475M	J	4.7	50V	Electrolytic	AB
C3894	VCEA0A1HW475M	J	4.7	50V	Electrolytic	AB
C3895	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3896	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3897	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3899	VCE9GA1HW475M	J	4.7	50V	Elect.(N.P)	AB

RESISTORS

RJ101	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
RJ102	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R3801	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R3802	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R3803	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R3804	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R3805	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R3806	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R3807	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R3808	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R3809	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3810	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R3811	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R3812	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R3813	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R3814	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA
R3815	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R3816	VRS-CY1JF393J	J	39k	1/16W	Metal Oxide	AA
R3817	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3818	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3819	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3820	VRS-CY1JF184J	J	180k	1/16W	Metal Oxide	AA
R3821	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R3822	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA
R3823	VRS-CY1JF393J	J	39k	1/16W	Metal Oxide	AA
R3824	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R3825	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3826	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R3827	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3829	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3830	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R3831	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R3832	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3833	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3834	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3835	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R3837	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3839	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R3840	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R3841	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R3842	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R3844	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3846	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R3848	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R3851	VRS-CY1JF225J	J	2.2M	1/16W	Metal Oxide	AA
R3852	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3853	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R3854	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R3855	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R3856	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R3857	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R3858	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R3875	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3882	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R3883	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R3885	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R3886	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3887	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3888	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3891	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R3892	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R3893	VRS-CY1JF221J	J	220	1/16W	Metal Oxide	AA
R3894	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R3895	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R3896	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3897	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3898	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3899	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA

MISCELLANEOUS PARTS

P3802	QPLGN0244FJ00	J	Plug, 12-pin (SB)	AF
P3803	QPLGN0244FJ00	J	Plug, 12-pin (SA)	AF

PWB-P: DUNTKA244WEV0
CONVERGENCE DRIVER UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC6504	VHiSTK39204-1	M	I.C.	BA
IC6505	VHiSTK39204-1	M	I.C.	BA

DIODES

Ref. No.	Part No.	★	Description	Code
D6506	RH-DX0487CEZZ	J	Diode	AC
D6507	RH-DX0487CEZZ	J	Diode	AC
D6508	RH-DX0487CEZZ	J	Diode	AC
D6509	RH-DX0487CEZZ	J	Diode	AC
D6510	RH-DX0487CEZZ	J	Diode	AC
D6511	RH-DX0487CEZZ	J	Diode	AC
D6512	RH-DX0487CEZZ	J	Diode	AC
D6513	RH-DX0487CEZZ	J	Diode	AC
D6514	RH-DX0487CEZZ	J	Diode	AC
D6515	RH-DX0487CEZZ	J	Diode	AC
D6516	RH-DX0487CEZZ	J	Diode	AC
D6517	RH-DX0487CEZZ	J	Diode	AC

COILS

Ref. No.	Part No.	★	Description	Code
L6501	RCiLP0236CEZZ	J	Coil	AE
L6502	RCiLP0236CEZZ	J	Coil	AE
L6503	RCiLP0236CEZZ	J	Coil	AE
L6504	RCiLP0236CEZZ	J	Coil	AE

CAPACITORS

Ref. No.	Part No.	★				Code
C6515	VCKYPA1HB681K	J	680p	50V	Ceramic	AA
C6516	VCCCPA1HH220J	J	22p	50V	Ceramic	AA
C6517	VCKYPA1HB681K	J	680p	50V	Ceramic	AA
C6518	VCCCPA1HH220J	J	22p	50V	Ceramic	AA
C6519	VCKYPA1HB681K	J	680p	50V	Ceramic	AA
C6520	VCCCPA1HH220J	J	22p	50V	Ceramic	AA
C6521	VCCSPA1HB331K	M	330p	50V	Ceramic	AA
C6522	VCCSPA1HB331K	M	330p	50V	Ceramic	AA
C6523	VCCSPA1HB331K	M	330p	50V	Ceramic	AA
C6524	VCEAEA1HW107M	M	100	50V	Electrolytic	AB
C6525	VCEAEA1HW107M	M	100	50V	Electrolytic	AB
C6526	VCEAEA1HW107M	M	100	50V	Electrolytic	AB
C6527	VCEAEA1HW107M	M	100	50V	Electrolytic	AB
C6528	VCKYPA1HB103K	J	0.01	50V	Ceramic	AA
C6529	VCKYPA1HB103K	J	0.01	50V	Ceramic	AA
C6530	VCEAEA1HW337M	M	330	50V	Electrolytic	AA
C6531	VCEAEA1HW337M	M	330	50V	Electrolytic	AA
C6532	VCKYPA1HB681K	J	680p	50V	Ceramic	AA
C6533	VCCCPA1HH220J	J	22p	50V	Ceramic	AA
C6534	VCKYPA1HB681K	J	680p	50V	Ceramic	AA
C6535	VCCCPA1HH220J	J	22p	50V	Ceramic	AA
C6536	VCKYPA1HB681K	J	680p	50V	Ceramic	AA
C6537	VCCCPA1HH220J	J	22p	50V	Ceramic	AA
C6538	VCCSPA1HB331K	M	330p	50V	Ceramic	AA
C6539	VCCSPA1HB331K	M	330p	50V	Ceramic	AA
C6540	VCCSPA1HB331K	M	330p	50V	Ceramic	AA
C6541	VCEA0A1HW107M	J	100	50V	Electrolytic	AB
C6542	VCEA0A1HW107M	J	100	50V	Electrolytic	AB
C6543	VCEA0A1HW107M	J	100	50V	Electrolytic	AB
C6544	VCEA0A1HW107M	J	100	50V	Electrolytic	AB
C6545	VCKYPA1HB103K	J	0.01	50V	Ceramic	AA
C6546	VCKYPA1HB103K	J	0.01	50V	Ceramic	AA
C6547	VCEAEA1HW337M	M	330	50V	Electrolytic	AA
C6548	VCEAEA1HW337M	M	330	50V	Electrolytic	AA

RESISTORS

Ref. No.	Part No.	★				Code
R6532	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	AA
R6533	VRD-RA2BE561J	J	560	1/8W	Carbon	AA
R6534	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	AA
R6535	VRD-RA2BE561J	J	560	1/8W	Carbon	AA
R6536	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	AA
R6537	VRD-RA2BE561J	J	560	1/8W	Carbon	AA
R6538	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R6539	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R6540	VRN-VV3DB2R2J	J	2.2	2W	Metal Film	AB
R6541	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R6542	VRN-VV3DB2R2J	J	2.2	2W	Metal Film	AB
R6543	VRD-RA2BE101J	J	100	1/8W	Carbon	AB
R6544	VRD-RA2BE101J	J	100	1/8W	Carbon	AB
R6545	VRN-VV3DB2R2J	J	2.2	2W	Metal Film	AB
R6546	VRD-RA2BE101J	J	100	1/8W	Carbon	AB
⚠ R6547	VRS-VV3AB101J	J	100	1W	Metal Oxide	AA
R6548	VRS-VV3AB101J	J	100	1W	Metal Oxide	AA
⚠ R6549	VRS-VV3AB101J	J	100	1W	Metal Oxide	AA
R6550	VRS-VV3AB101J	J	100	1W	Metal Oxide	AA
⚠ R6551	VRN-VV3ABR47J	J	0.47	1W	Metal Film	AA
⚠ R6552	VRN-VV3ABR47J	J	0.47	1W	Metal Film	AA
R6553	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	AA
R6554	VRD-RA2BE561J	J	560	1/8W	Carbon	AA
R6555	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	AA
R6556	VRD-RA2BE561J	J	560	1/8W	Carbon	AA
R6557	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	AA
R6558	VRD-RA2BE561J	J	560	1/8W	Carbon	AA
R6559	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R6560	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R6561	VRN-VV3DB2R2J	J	2.2	2W	Metal Film	AB
R6563	VRN-VV3DB2R2J	J	2.2	2W	Metal Film	AB
R6564	VRD-RA2BE101J	J	100	1/8W	Carbon	AB
R6565	VRD-RA2BE101J	J	100	1/8W	Carbon	AB
R6566	VRN-VV3DB2R2J	J	2.2	2W	Metal Film	AB
R6567	VRD-RA2BE101J	J	100	1/8W	Carbon	AB
⚠ R6568	VRS-VV3AB101J	J	100	1W	Metal Oxide	AA
⚠ R6569	VRS-VV3AB101J	J	100	1W	Metal Oxide	AA
⚠ R6570	VRS-VV3AB101J	J	100	1W	Metal Oxide	AA
⚠ R6571	VRN-VV3ABR47J	J	0.47	1W	Metal Film	AA
⚠ R6572	VRS-VV3AB101J	J	100	1W	Metal Oxide	AA
⚠ R6573	VRN-VV3ABR47J	J	0.47	1W	Metal Film	AA
⚠ R6574	VRS-VV3LB101J	J	100	3W	Metal Oxide	AB
⚠ R6575	VRS-VV3LB560J	J	56	3W	Metal Oxide	AB
⚠ R6576	VRS-VV3LB101J	J	100	3W	Metal Oxide	AB
⚠ R6577	VRS-VV3LB560J	J	56	3W	Metal Oxide	AB
⚠ R6578	VRS-VV3LB101J	J	100	3W	Metal Oxide	AB
⚠ R6579	VRS-VV3LB560J	J	56	3W	Metal Oxide	AB
R6580	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
P6501	QPLGN1241CEZZ	J	Plug, 12-pin (DO)	AB
P6502	QPLGN0741CEZZ	J	Plug, 7-pin (DI)	AC
P6503	QPLGN0841CEZZ	J	Plug, 8-pin (LD)	AB
RDA6503	PRDAR0106MEFW	M	Heat Sink, IC6504·IC6505	AX
	LX-BZ0004PEFD	J	Screw	AA
	XBPSD30P08KS0	J	Screw	AA

PWB-Q: DUNTKA236WEV0
TUNER UNIT

Ref. No.	Part No.	★	Description	Code
TUNERS				
⚠ TU101	VTUATEDH9-205	J	Tuner	AX
⚠ TU201	VTUATEDH9-800	J	Tuner	AY
INTEGRATED CIRCUITS				
IC101	VHiLA7567BM-1	J	LA7567BM-TRM	AK
IC201	VHiLA7567BM-1	J	LA7567BM-TRM	AK
IC301	VHiCXA2064M-1	J	CXA2064M	AR
IC302	VHiMM1508XN-1	J	MM1508XNRE	AE
IC4406	VHiCXA2069Q-1	J	CXA2069Q	AR
IC4407	VHiPQ05RD08-1	J	PQ05RD08	AF
IC4408	VHiPQ09RD08-1	J	PQ09RD08	AF
TRANSISTORS				
Q101	VS2SC2735//1E	J	2SC2735	AC
Q102	VS2SA1530AR-1	J	2SA1530AR	AB
Q103	VS2SC3928AR-1	J	2SC3928AR	AB
Q104	VS2SA1530AR-1	J	2SA1530AR	AB
Q105	VS2SA1530AR-1	J	2SA1530AR	AB
Q106	VS2SC3928AR-1	J	2SC3928AR	AB
Q201	VS2SC2735//1E	J	2SC2735	AC
Q202	VS2SA1530AR-1	J	2SA1530AR	AB
Q203	VS2SC3928AR-1	J	2SC3928AR	AB
Q204	VS2SA1530AR-1	J	2SA1530AR	AB
Q205	VS2SA1530AR-1	J	2SA1530AR	AB
Q206	VS2SC3928AR-1	J	2SC3928AR	AB
Q320	VSDTC314TK/-1	J	DTC314TK	AC
Q321	VSDTC314TK/-1	J	DTC314TK	AC
Q360	VS2SC3928AR-1	J	2SC3928AR	AB
Q4414	VS2SC3928AR-1	J	2SC3928AR	AB
Q4501	VS2SC3928AR-1	J	2SC3928AR	AB
DIODES				
D101	RH-EX1250CEZZ	J	Zener Diode	AB
D102	RH-EX1295CEZZ	J	Zener Diode	AB
D201	RH-EX1250CEZZ	J	Zener Diode	AB
D202	RH-EX1295CEZZ	J	Zener Diode	AB
D4404	RH-EX1247CEZZ	M	Zener Diode	AA
D4405	RH-EX1264CEZZ	J	Zener Diode	AB
D4406	RH-EX1264CEZZ	J	Zener Diode	AB
D4407	RH-EX1264CEZZ	J	Zener Diode	AB
D4408	RH-EX1264CEZZ	J	Zener Diode	AB
D4409	RH-EX1264CEZZ	J	Zener Diode	AB
D4410	RH-EX1264CEZZ	J	Zener Diode	AB
D4411	RH-EX1264CEZZ	J	Zener Diode	AB
D4412	RH-EX1264CEZZ	J	Zener Diode	AB
D4413	RH-EX1264CEZZ	J	Zener Diode	AB
D4414	RH-EX1264CEZZ	J	Zener Diode	AB
FILTERS AND COILS				
CF201	RFiLC0403CEZZ	J	Filter	AE
CF202	RFiLC0013CEZZ	J	Filter	AE
CF251	RFiLC0403CEZZ	J	Filter	AE
CF252	RFiLC0013CEZZ	J	Filter	AE
L101	VP-OFR39M0000	J	Peaking 0.39µH	AD
L102	VPACK100J0000	J	Peaking 10µH	AB
L103	VPACK1R0M0000	M	Peaking 1µH	AC
L107	VPACK120J0000	J	Peaking 12µH	AB
L108	RCiLi0633CEZZ	J	Coil	AD
L201	VP-OFR39M0000	J	Peaking 0.39µH	AD
L204	VPACK120J0000	J	Peaking 12µH	AB
L205	RCiLi0633CEZZ	J	Coil	AD
L207	VP-OF1R0M0000	M	Peaking 1µH	AC
L208	VPACK100J0000	J	Peaking 10µH	AB
SF101	RFiLC0443CEZZ	J	Filter	AK
SF201	RFiLC0443CEZZ	J	Filter	AK
CONTROLS				
R115	RVR-M4334CEZZ	J	10k	AC
R136	RVR-M4322CEZZ	M	4.7k	AC
R215	RVR-M4334CEZZ	J	10k	AC
R238	RVR-M4322CEZZ	M	4.7k	AC
R301	RVR-M4334CEZZ	J	10k	AC
R313	RVR-M4332CEZZ	J	4.7k	AC
R329	RVR-M4332CEZZ	J	4.7k	AC
R331	RVR-M4332CEZZ	J	4.7k	AC

Ref. No.	Part No.	★	Description			Code
CAPACITORS						
C101	VCEA0A1HW475M	J	4.7	50V	Electrolytic	AB
C102	VCEA0A0JW476M	J	47	6.3V	Electrolytic	AB
C103	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C104	VCEA0A0JW108M	J	1000	6.3V	Electrolytic	AC
C105	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C106	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C107	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C108	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C109	VCEA0A1CW477M	J	470	16V	Electrolytic	AC
C110	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C112	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C113	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C114	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C115	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C116	VCKYCY1CB223K	J	0.022	16V	Ceramic	AB
C117	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C118	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C119	VCEA0A0JW107M	J	100	6.3V	Electrolytic	AB
C120	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C121	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C123	VCFYSA1HB474J	J	0.47	50V	Mylar	AC
C124	VCCCCY1HH240J	J	24p	50V	Ceramic	AA
C127	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C128	VCKYCY1CB473K	J	0.047	16V	Ceramic	AA
C129	VCKYCY1HB472K	J	4700p	50V	Ceramic	AA
C130	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C201	VCEA0A1HW475M	J	4.7	50V	Electrolytic	AB
C202	VCEA0A0JW476M	J	47	6.3V	Electrolytic	AB
C203	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C204	VCEA0A0JW108M	J	1000	6.3V	Electrolytic	AC
C205	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C206	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C207	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C208	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C209	VCEA0A1CW477M	J	470	16V	Electrolytic	AC
C210	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C211	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C212	VCEA0A0JW476M	J	47	6.3V	Electrolytic	AB
C214	VCEA0A1HW475M	J	4.7	50V	Electrolytic	AB
C215	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C217	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C218	VCKYCY1CB223K	J	0.022	16V	Ceramic	AB
C219	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C220	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C221	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C222	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C223	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C224	VCEA0A0JW107M	J	100	6.3V	Electrolytic	AB
C225	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C226	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C228	VCCCCY1HH240J	J	24p	50V	Ceramic	AA
C229	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C230	VCKYCY1CB473K	J	0.047	16V	Ceramic	AA
C231	VCKYCY1HB472K	J	4700p	50V	Ceramic	AA
C232	VCFYSA1HB474J	J	0.47	50V	Mylar	AC
C301	VCE9GA1HW475M	J	4.7	50V	Elect.(N.P)	AB
C302	VCEA0A1HW475M	J	4.7	50V	Electrolytic	AB
C303	VCEA0A1CW337M	J	330	16V	Electrolytic	AC
C304	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C305	VCEA0A1HW475M	J	4.7	50V	Electrolytic	AB
C306	VCEA0A1HW475M	J	4.7	50V	Electrolytic	AB
C307	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C308	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C309	VCKYCY1HB562K	J	5600p	50V	Ceramic	AA
C310	VCKYCY1EB123K	J	0.012	25V	Ceramic	AA
C311	VCE9GA1HW475M	J	4.7	50V	Elect.(N.P)	AB
C312	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C313	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB

PWB-Q: DUNTKA236WEV0

TUNER UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
C314	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C315	VCE9GA1HW475M	J	4.7	50V	Elect.(N.P)	AB
C316	VCEA0A1HW335M	J	3.3	50V	Electrolytic	AB
C317	VCE9GA1HW475M	J	4.7	50V	Elect.(N.P)	AB
C318	VCKYCY1CB473K	J	0.047	16V	Ceramic	AA
C319	VCKYCY1HB272K	J	2700p	50V	Ceramic	AA
C320	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C321	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C322	VCE9GA1HW105M	J	1.0	50V	Elect.(N.P)	AB
C323	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C325	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C326	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C327	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C328	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C331	VCKYCY1HB472K	J	4700p	50V	Ceramic	AA
C332	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C333	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C334	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C337	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C347	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C348	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C350	VCKYCY1HB681K	J	680p	50V	Ceramic	AA
C351	VCKYCY1HB681K	J	680p	50V	Ceramic	AA
C352	VCKYCY1HB681K	J	680p	50V	Ceramic	AA
C353	VCKYCY1HB681K	J	680p	50V	Ceramic	AA
C354	VCKYCY1HB681K	J	680p	50V	Ceramic	AA
C355	VCKYCY1HB681K	J	680p	50V	Ceramic	AA
C356	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C357	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C387	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C388	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C389	VCKYCY1HB681K	J	680p	50V	Ceramic	AA
C390	VCKYCY1HB472K	J	4700p	50V	Ceramic	AA
C391	VCKYCY1HB681K	J	680p	50V	Ceramic	AA
C4505	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C4506	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C4507	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C4508	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C4509	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C4510	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C4511	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C4512	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C4513	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C4514	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C4515	VCEA0A1CW226M	J	22	16V	Electrolytic	AB
C4516	VCE9GA1HW105M	J	1.0	50V	Elect.(N.P)	AB
C4517	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C4518	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C4519	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C4520	VCE9GA1HW105M	J	1.0	50V	Elect.(N.P)	AB
C4521	RC-EZ0739CEZZ	J	100	16V	Electrolytic	AD
C4522	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C4523	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C4524	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C4525	VCEA0A1HW105M	J	1.0	50V	Electrolytic	AB
C4526	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C4527	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C4528	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C4529	VCEA0A0JW476M	J	47	6.3V	Electrolytic	AB
C4530	VCE9GA1HW105M	J	1.0	50V	Elect.(N.P)	AB
C4531	VCEA0A1CW477M	J	470	16V	Electrolytic	AC
C4532	VCE9GA1HW105M	J	1.0	50V	Elect.(N.P)	AB
C4533	VCE9GA1HW105M	J	1.0	50V	Elect.(N.P)	AB

RESISTORS

RJ0001	VRS-TV1JD000J	J	0	1/16W	Metal Oxide	AA
RJ0002	VRS-TV1JD000J	J	0	1/16W	Metal Oxide	AA
RJ0003	VRS-TV1JD000J	J	0	1/16W	Metal Oxide	AA
RJ0004	VRS-TV1JD000J	J	0	1/16W	Metal Oxide	AA
RJ0005	VRS-TV1JD000J	J	0	1/16W	Metal Oxide	AA
RJ0006	VRS-TV1JD000J	J	0	1/16W	Metal Oxide	AA
RJ0007	VRS-TV1JD000J	J	0	1/16W	Metal Oxide	AA
R101	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R102	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R103	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R106	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R107	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R108	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R109	VRS-CY1JF270J	J	27	1/16W	Metal Oxide	AA
R110	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R111	VRS-TW2ED151J	J	150	1/4W	Metal Oxide	AA
R112	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R114	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R116	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R117	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R118	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R119	VRS-CY1JF274J	J	270k	1/16W	Metal Oxide	AA
R120	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R121	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R122	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R123	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R124	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R125	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R126	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R127	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R128	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R129	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R130	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R131	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R132	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R133	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R134	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R138	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R139	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R140	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R141	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R142	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R143	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R144	VRS-CY1JF151J	J	150	1/16W	Metal Oxide	AA
R145	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R147	VRS-CY1JF684J	J	680k	1/16W	Metal Oxide	AA
R148	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R149	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R150	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R151	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R152	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R202	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R203	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R204	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R207	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R208	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R209	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R210	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R211	VRS-CY1JF270J	J	27	1/16W	Metal Oxide	AA
R212	VRS-TW2ED151J	J	150	1/4W	Metal Oxide	AA
R213	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R217	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R219	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R220	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R221	VRS-CY1JF274J	J	270k	1/16W	Metal Oxide	AA
R222	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R224	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R225	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R226	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R227	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R228	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R229	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R230	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R231	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R232	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R233	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R234	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R235	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R236	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R237	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R240	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA

PWB-Q: DUNTKA236WEV0

TUNER UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
R241	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R242	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R243	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R244	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R245	VRS-CY1JF151J	J	150	1/16W	Metal Oxide	AA
R246	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R247	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R248	VRS-CY1JF684J	J	680k	1/16W	Metal Oxide	AA
R249	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R250	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R251	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R252	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R253	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R254	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R302	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R303	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R304	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R305	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R306	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R307	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R308	VRS-CY1JF105J	J	1.0M	1/16W	Metal Oxide	AA
R309	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R310	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R311	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R312	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R314	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R315	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R316	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R317	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R318	VRS-TV1JD680J	J	68	1/16W	Metal Oxide	AA
R319	VRS-TV1JD221J	J	220	1/16W	Metal Oxide	AA
R320	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R321	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R322	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R323	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R324	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R325	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R326	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R327	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R330	VRS-TV1JD681J	J	680	1/16W	Metal Oxide	AA
R334	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R335	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA
R338	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R339	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA
R341	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R350	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R351	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R352	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R353	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R354	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R355	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R356	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R359	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R360	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R361	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R362	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R363	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R365	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R366	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R367	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R368	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R369	VRS-TV1JD681J	J	680	1/16W	Metal Oxide	AA
R370	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R371	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R372	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R373	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R374	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R375	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R4550	VRS-TV1JD104J	J	100k	1/16W	Metal Oxide	AA
R4551	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R4552	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R4553	VRS-CY1JF274J	J	270k	1/16W	Metal Oxide	AA
R4554	VRS-CY1JF274J	J	270k	1/16W	Metal Oxide	AA
R4555	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R4556	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R4557	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R4558	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4559	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R4560	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R4561	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R4562	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4563	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4564	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4565	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4566	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4567	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4568	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R4569	VRS-TV1JD750J	J	75	1/16W	Metal Oxide	AA
R4570	VRS-TV1JD750J	J	75	1/16W	Metal Oxide	AA
R4571	VRS-TV1JD750J	J	75	1/16W	Metal Oxide	AA
R4572	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4573	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4574	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4575	VRS-TV1JD750J	J	75	1/16W	Metal Oxide	AA
R4576	VRS-TV1JD750J	J	75	1/16W	Metal Oxide	AA
R4577	VRS-TV1JD750J	J	75	1/16W	Metal Oxide	AA
R4578	VRS-TV1JD750J	J	75	1/16W	Metal Oxide	AA
R4580	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R4581	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R9001	VRS-TV1JD000J	J	0	1/16W	Metal Oxide	AA

MISCELLANEOUS PARTS

FB101	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB201	RBLN-0065CEZZ	J	Ferrite Bead	AB
J511	QSOCD0440CEZZ	J	Socket	AH
J4401	QTANJ1117CEZZ	M	Terminal	AN
J4402	QTANJ1405CEZZ	J	Terminal	AH
P101	QPLGN0207CEZZ	J	Plug	AA
P4402	QPLGN1278GEZZ	J	Plug, 12-pin (RC)	AC
P4403	QPLGZ4041CEZZ	J	Plug, 40-pin (TB)	AG
P9001	QTiPM0083CEZZ	J	Tip (AG)	AB
RDA4401	PRDAR5195CEFW	J	Heat Sink, IC4408	AB
L105	QJUM-7001GEFW	M	Jumper	AA
L202	QJUM-7001GEFW	M	Jumper	AA

PWB-S DUNTKA237WEV0

VCJ UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC2202	VHiNJ2233BM-1	J	NJM2233BM	AE
IC2301	VHiTC90A45F-1	J	TC90A45F	AM
IC2401	RH-iX3369CEZZ	J	TA1270BF	AV
IC2402	VHiTA1287F+-1	J	TA1287F	AN
IC2404	VHiMM1509XN-1	J	MM1509XNRE	AE
IC2405	VHiMM1509XN-1	J	MM1509XNRE	AE
IC2406	VHiMM1509XN-1	J	MM1509XNRE	AE
IC3151	VHiZ86130S+-1	J	Z8613012SSC	AV
IC4801	RH-iX3369CEZZ	J	TA1270BF	AV
IC4802	VHiTA1287F+-1	J	TA1287F	AN
IC4804	VHiNJ2233BM-1	J	NJM2233BM	AE
IC4805	VHiPQ05RD08-1	J	PQ05RD08	AF
IC4806	VHiMM1509XN-1	J	MM1509XNRE	AE
IC4808	VHiMM1509XN-1	J	MM1509XNRE	AE
IC4809	VHiMM1509XN-1	J	MM1509XNRE	AE
IC4902	VHiPQ09RD08-1	J	PQ09RD08	AF

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q2202	VS2SC3928AR-1	J	2SC3928AR	AB
Q2301	VS2SC3928AR-1	J	2SC3928AR	AB
Q2303	VS2SC3928AR-1	J	2SC3928AR	AB
Q2307	VS2SC3928AR-1	J	2SC3928AR	AB
Q2402	VS2SA1530AR-1	J	2SA1530AR	AB
Q2403	VS2SA1530AR-1	J	2SA1530AR	AB
Q2407	VS2SA1530AR-1	J	2SA1530AR	AB
Q2408	VS2SA1530AR-1	J	2SA1530AR	AB
Q2409	VS2SA1530AR-1	J	2SA1530AR	AB
Q2451	VS2SC3928AR-1	J	2SC3928AR	AB
Q3151	VS2SC3928AR-1	J	2SC3928AR	AB
Q4804	VS2SA1530AR-1	J	2SA1530AR	AB
Q4805	VS2SC3928AR-1	J	2SC3928AR	AB
Q4806	VS2SA1530AR-1	J	2SA1530AR	AB
Q4807	VS2SA1530AR-1	J	2SA1530AR	AB
Q4808	VS2SA1530AR-1	J	2SA1530AR	AB
Q4809	VS2SA1530AR-1	J	2SA1530AR	AB
Q4811	VS2SC3928AR-1	J	2SC3928AR	AB
Q4812	VS2SA1530AR-1	J	2SA1530AR	AB
Q4813	VS2SC3928AR-1	J	2SC3928AR	AB
Q4851	VS2SC3928AR-1	J	2SC3928AR	AB
Q4852	VS2SC3928AR-1	J	2SC3928AR	AB
Q4853	VS2SC3928AR-1	J	2SC3928AR	AB
Q7299	VS2SA1530AR-1	J	2SA1530AR	AB

DIODES

Ref. No.	Part No.	★	Description	Code
D2401	VHDHSU119//-1	J	Diode	AB
D4851	VHDHSU119//-1	J	Diode	AB
D4852	VHDHSU119//-1	J	Diode	AB
D4853	VHDHSU119//-1	J	Diode	AB

PACKAGED CIRCUITS

Ref. No.	Part No.	★	Description	Code
X2401	RCRSB0001PEZZ	J	Crystal 3.58MHz	AL
X3151	RCRSB0138GEN1	J	Crystal 32.768kHz	AD
X4801	RCRSB0001PEZZ	J	Crystal	AL

FILTERS

Ref. No.	Part No.	★	Description	Code
CF2402	RFiLA0034CEZZ	J	Filter	AD
CF4802	RFiLA0034CEZZ	J	Filter	AD

COILS AND TRANFORMER

Ref. No.	Part No.	★	Description	Code
L2301	VP-MK101K0000	J	Peaking 100µH	AB
L2302	VP-MK101K0000	J	Peaking 100µH	AB
L2306	VP-MK220K0000	J	Peaking 22µH	AB
L2307	VPACK220K0000	M	Peaking 22µH	AB
L2401	VPACK560J0000	J	Peaking 56µH	AB
L2402	VPACK560J0000	J	Peaking 56µH	AB
L4801	VPACK560J0000	J	Peaking 56µH	AB
L4802	VPACK560J0000	J	Peaking 56µH	AB

CAPACITORS

[M.P.F.···Metalized Polyester Film]

Ref. No.	Part No.	★			Description	Code
C2232	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C2233	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2234	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C2235	VCCCCY1HH471J	J	470p	50V	Ceramic	AA
C2236	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2237	VCEA0A1CW226M	J	22	16V	Electrolytic	AB
C2238	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C2239	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C2301	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2302	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2303	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2304	VCCCCY1HH181J	J	180p	50V	Ceramic	AA
C2305	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2306	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2307	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2308	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2309	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2310	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2313	VCCCCY1HH180J	J	18p	50V	Ceramic	AA
C2314	VCCCCY1HH390J	J	39p	50V	Ceramic	AA
C2315	VCCCCY1HH3R0C	J	3.0p	50V	Ceramic	AA
C2316	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C2317	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C2318	VCCCCY1HH3R0C	J	3.0p	50V	Ceramic	AA
C2319	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C2320	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C2325	VCEA0A0JW476M	J	47	6.3V	Electrolytic	AB
C2326	VCEA0A0JW476M	J	47	6.3V	Electrolytic	AB
C2327	VCEA0A1HW474M	J	0.47	50V	Electrolytic	AB
C2331	VCEA0A0JW476M	J	47	6.3V	Electrolytic	AB
C2401	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C2402	VCEA0A1HW224M	J	0.22	50V	Electrolytic	AB
C2403	VCKYCY1HB222K	J	2200p	50V	Ceramic	AA
C2404	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2405	VCEA0A1HW225M	J	2.2	50V	Electrolytic	AB
C2406	VCFYSA1HB104J	J	0.1	50V	M.P.F.	AB
C2407	VCEA0A1HW225M	J	2.2	50V	Electrolytic	AB
C2408	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C2409	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2410	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2411	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2412	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2413	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C2414	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C2415	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C2422	VCFYSA1HB104J	J	0.1	50V	M.P.F.	AB
C2423	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2425	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2426	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C2427	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2430	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2431	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C2432	VCEA0A1CW477M	J	470	16V	Electrolytic	AC
C2451	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C2452	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C2453	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C2454	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C2455	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C2456	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C2457	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2458	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C2459	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C3151	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C3152	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C3153	VCCCCY1HH180J	J	18p	50V	Ceramic	AA
C3154	VCCCCY1HH561J	J	560p	50V	Ceramic	AB
C3155	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3156	VCKYCY1CB683K	J	0.068	16V	Ceramic	AC
C3157	VCKYCY1HB682K	J	6800p	50V	Ceramic	AA
C3158	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3159	VCEA0A0JW107M	J	100	6.3V	Electrolytic	AB
C4801	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C4802	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA

PWB-S DUNTKA237WEV0

VCJ UNIT (Continued)

Ref. No.	Part No.	★			Description	Code
C4803	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C4804	VCEA0A1CW477M	J	470	16V	Electrolytic	AC
C4805	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C4806	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C4808	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C4811	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C4812	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C4813	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C4814	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C4818	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C4820	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C4821	VCEA0A1HW224M	J	0.22	50V	Electrolytic	AB
C4822	VCKYCY1HB222K	J	2200p	50V	Ceramic	AA
C4823	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C4824	VCEA0A1HW225M	J	2.2	50V	Electrolytic	AB
C4825	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C4826	VCEA0A1HW225M	J	2.2	50V	Electrolytic	AB
C4827	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C4832	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C4840	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C4841	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C4851	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C4852	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C4853	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C4854	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C4855	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C4856	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C4857	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C4858	VCEA0A1CW476M	J	47	16V	Electrolytic	AB
C4859	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C4861	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C4862	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C4863	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C4864	VCCCCY1HH471J	J	470p	50V	Ceramic	AA
C4865	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C4866	VCEA0A1CW226M	J	22	16V	Electrolytic	AB
C4867	VCE9GA1CW106M	J	10	16V	Elect.(N.P)	AB
C4868	VCEA0A1CW106M	J	10	16V	Electrolytic	AB
C4869	VCFYSA1HB104J	J	0.1	50V	M.P.F.	AB
C4892	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C4893	VCEA0A0JW476M	J	47	6.3V	Electrolytic	AB
C4894	VCEA0A1CW107M	J	100	16V	Electrolytic	AC
C4895	VCEA0A1CW476M	J	47	16V	Electrolytic	AB

RESISTORS

RJ110	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
RJ111	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
RJ112	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
RJ113	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
RJ114	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
RJ116	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
RJ117	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
RJ118	VRS-TQ2BD000J	J	0	1/8W	Metal Oxide	AA
RJ119	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
RJ120	VRS-TQ2BD000J	J	0	1/8W	Metal Oxide	AA
RJ121	VRS-TQ2BD000J	J	0	1/8W	Metal Oxide	AA
RJ122	VRS-TQ2BD000J	J	0	1/8W	Metal Oxide	AA
RJ123	VRS-TV1JD00J	J	0	1/16W	Metal Oxide	AA
RJ124	VRS-TV1JD00J	J	0	1/16W	Metal Oxide	AA
RJ126	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
RJ127	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
RJ128	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
RJ129	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
RJ130	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
RJ131	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
RJ132	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
RJ133	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
RJ134	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
RJ135	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
RJ136	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2216	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2217	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2218	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R2219	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R2221	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R2222	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R2228	VRS-CY1JF272J	J	2.7k	1/16W	Metal Oxide	AA
R2301	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R2302	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2305	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R2306	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2308	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R2309	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2310	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2311	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2312	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2320	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R2321	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R2323	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2329	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2401	VRS-CY1JF303J	J	30k	1/16W	Metal Oxide	AA
R2402	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2403	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2404	VRS-CY1JF302J	J	3.0k	1/16W	Metal Oxide	AA
R2405	VRS-CY1JF361J	J	360	1/16W	Metal Oxide	AA
R2406	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2407	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2408	VRS-CY1JF272J	J	2.7k	1/16W	Metal Oxide	AA
R2409	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2410	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R2411	VRS-CY1JF272J	J	2.7k	1/16W	Metal Oxide	AA
R2412	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R2413	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R2414	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R2415	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2416	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2417	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2418	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2419	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2420	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2422	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2423	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R2424	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R2425	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R2426	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2427	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R2428	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2429	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R2430	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2431	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2432	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2436	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA
R2437	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA
R2440	VRS-CY1JF220J	J	22	1/16W	Metal Oxide	AA
R2451	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R2452	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R2453	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R2454	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2455	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2456	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA
R2457	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R2458	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R2459	VRS-CY1JF393J	J	39k	1/16W	Metal Oxide	AA
R2461	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2462	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2463	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2464	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2467	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2468	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2469	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3150	VRS-CY1JF474J	J	470k	1/16W	Metal Oxide	AA
R3151	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3152	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R3153	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3154	RR-SZ0080CEZZ	J	22M	1/8W	Metal Oxide	AA
R3155	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA

PWB-S DUNTKA237WEV0
VCJ UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
R3156	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R3157	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R3158	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R3159	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3160	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4802	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R4803	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R4804	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4805	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4806	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4807	VRS-CY1JF220J	J	22	1/16W	Metal Oxide	AA
R4808	VRS-CY1JF220J	J	22	1/16W	Metal Oxide	AA
R4809	VRS-CY1JF220J	J	22	1/16W	Metal Oxide	AA
R4813	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R4815	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R4816	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R4817	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA
R4818	VRS-CY1JF823J	J	82k	1/16W	Metal Oxide	AA
R4820	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R4821	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R4822	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R4826	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4827	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4829	VRS-CY1JF303J	J	30k	1/16W	Metal Oxide	AA
R4830	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R4832	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R4833	VRS-CY1JF302J	J	3.0k	1/16W	Metal Oxide	AA
R4834	VRS-CY1JF361J	J	360	1/16W	Metal Oxide	AA
R4835	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R4836	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4837	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4839	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R4841	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R4843	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R4851	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R4852	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R4853	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R4854	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R4855	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R4856	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA
R4857	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R4858	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R4859	VRS-CY1JF393J	J	39k	1/16W	Metal Oxide	AA
R4861	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R4862	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4863	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R4864	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R4865	VRS-CY1JF302J	J	3.0k	1/16W	Metal Oxide	AA
R4867	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R4868	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R4869	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R4870	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R4871	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R4872	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R4873	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA
R4874	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA
R4875	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4876	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R4877	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R4878	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R4879	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R4880	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R4888	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R4889	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R4890	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R4891	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R7297	VRS-CY1JF302J	J	3.0k	1/16W	Metal Oxide	AA
R7298	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R7299	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA

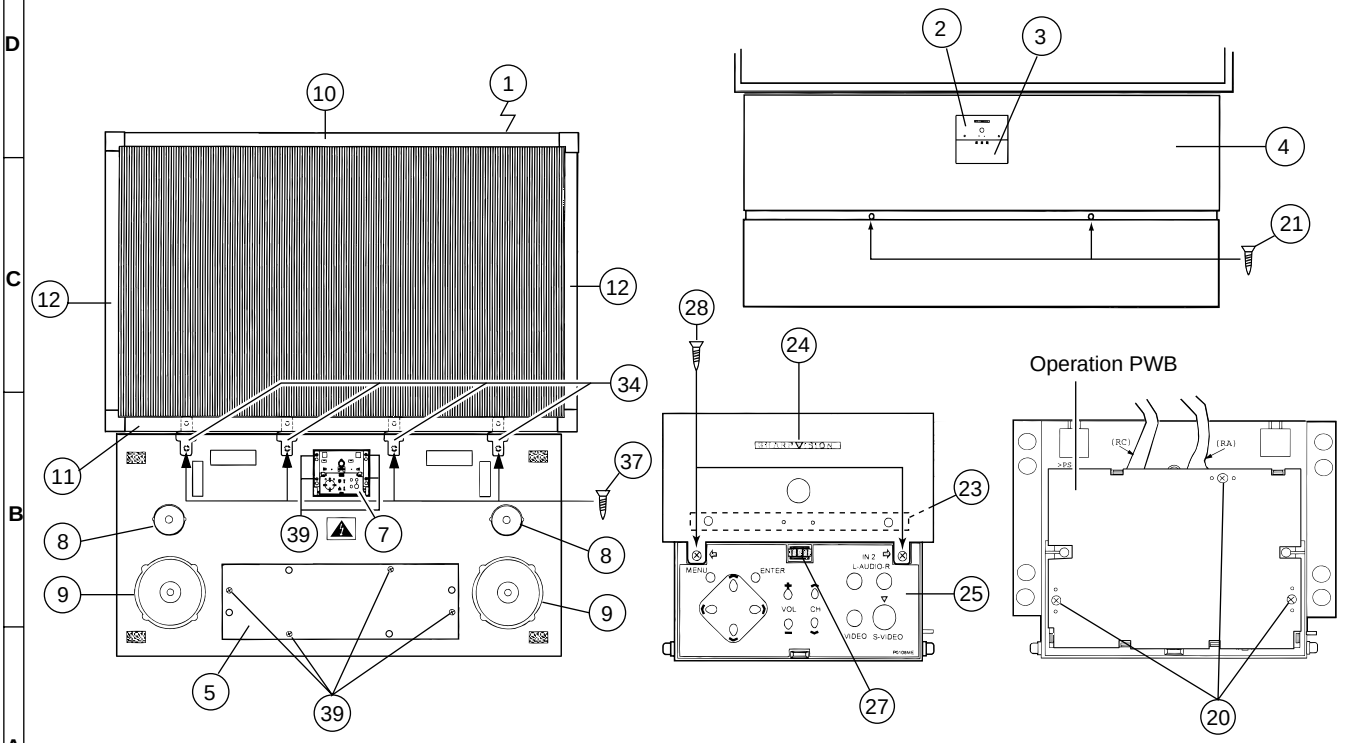
MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
P4801	QPLGZ3041CEZZ	J	Plug, 30-pin (JA)	AF
P4802	QPLGZ3041CEZZ	J	Plug, 30-pin (JB)	AF

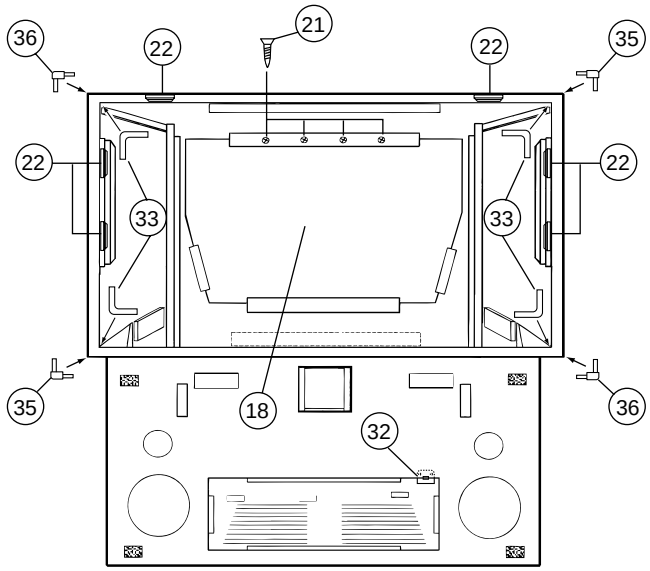
CABINET PARTS

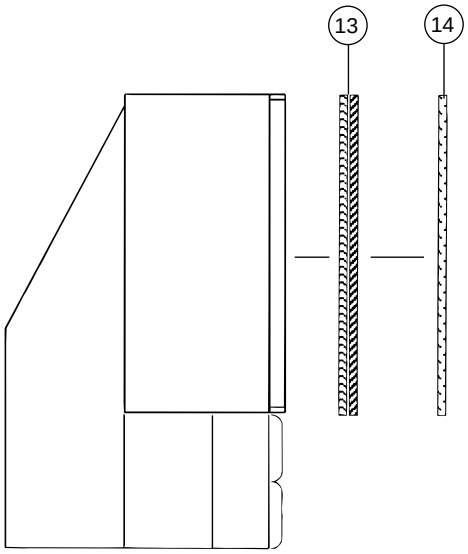
Ref. No.	Part No.	★	Description	Code
1	*Not Available*	–	Cabinet	—
2	GCOVA1051MESA	M	Control Cover	AT
3	GDORF1117MESA	M	Front Door	AR
4	HGRL-5000MESA	M	Speaker Grille (61R-WP5H)	BP
4	HGRL-5001MESA	M	Speaker Grille (55R-WP5H)	BP
5	GCOVA5000ME00	M	Front Cover	AS
6	GCOVA5001ME00	M	Rear Cover	AY
7	HPNLC1107MEKA	M	Control Panel	AQ
8	VSP0082TBQ28A	M	Speaker, x2	AR
9	VSP0016PBF48A	M	Speaker, x2	AZ
10	CWAKP0109ME01	M	Frame-Top (61R-WP5H)	BQ
10	CWAKP0108ME01	M	Frame-Top (55R-WP5H)	BP
11	CWAKP0106ME01	M	Frame-Bottom(61R-WP5H)	AZ
11	CWAKP0107ME01	M	Frame-Bottom(55R-WP5H)	AY
12	CWAKP0103ME01	M	Frame-Side, x2(61R-WP5H)	AW
12	CWAKP0105ME01	M	Frame-Side, x2(55R-WP5H)	AX
13	GTOK-0001MEZZ	M	Fresnel Lens (61R-WP5H)	DA
13	GTOK-0004MEZZ	M	Fresnel Lens (55R-WP5H)	CS
14	GTOK-0003MEZZ	M	Protect Screen (61R-WP5H)	BQ
14	GTOK-0006MEZZ	M	Protect Screen (55R-WP5H)	BP
15	LANGK0012ME00	M	CRT Bracket	BE
16	LX-TZ3022MEFF	M	Screw, x26	AA
17	GLEGM9023MEZZ	M	Caster, x4	AM
18	PMiR-0022MEZZ	M	Mirror (61R-WP5H)	BQ
18	PMiR-0023MEZZ	M	Mirror (55R-WP5H)	BQ
19	LX-TZ3024MEFF	M	Screw, x12	AE
20	LX-TZ3004CEFD	M	Screw, x3	AA
21	LX-MZ3014MEFF	M	Screw, x6	AA
22	LHLDZ0109MEZZ	M	Screen frame Holder, x6	AC
23	GCOVA1050MESA	M	LED Lens	AL
24	HBDGD3017MESA	M	Badge	AG
25	HiNDP0108MEKZ	M	Indication Plate-Front	AM
26	LANGF0104MEFW	M	Chassis Holder	AA
27	PKAi-0007PE00	J	Door Latch	AE
28	LX-HZ3001PEFB	J	Screw, x2	AA
29	HiNDP0109MEKZ	M	Indiation Plate-Rear	AX
30	LHLDZ0103MEKZ	M	Chassis Holder	AG
31	LHLDZ0104MEKZ	M	Chassis Holder	AG
32	LANGT0104MESA	M	Focus Pack Holder	AE
33	LANGF0102ME00	M	Screen Frame Corner Angle, x4	AD
34	LANGF0103ME00	M	Screen Frame Angle, x4	AD
35	CHLDZ0105ME01	M	Corner (RT), x2	AE
36	CHLDZ0106ME01	M	Corner (LT), x2	AE
37	LX-TZ3023MEFF	M	Screw, x24	AA
38	TCAUH3057MEZZ	M	Caution Label	AC
39	LX-MZ3001MEFF	M	Screw, x46	AA
40	TLABM0023MEZZ	M	Model Label	AD
41	LCHSM0010MEK0	M	Chassis Frame	AK
42	LCHSM0017MEKZ	M	Chassis Frame	AN
43	LCHSM0018MEKZ	M	Chassis Frame	AP
44	LCHSM0019MEKZ	M	Chassis Frame	AN
	LHLDW1046CEZZ	M	Holder, x10	AA
	LX-NZ3022MEFD	M	Nut, x4	AC
	LX-BZ3022MEFF	M	Screw, x4	AC
	LHLDW1060CEZZ	M	Holder, x3	AA
	LANGT0103MEFW	M	Fly Back Bracket	AA
	XTASD40P12000	M	Screw, x2	AA
	XTASB30P12000	M	Screw, x6	AA
	RCORF0104CEZZ	M	Ferrite Cylinder, x7	AN
	LX-NZ3047GEZZ	M	Nut	AA
	LX-HZ3001PEFD	J	Screw, x2	AB
	LHLDF0046PEZZ	J	Holder, x6	AC

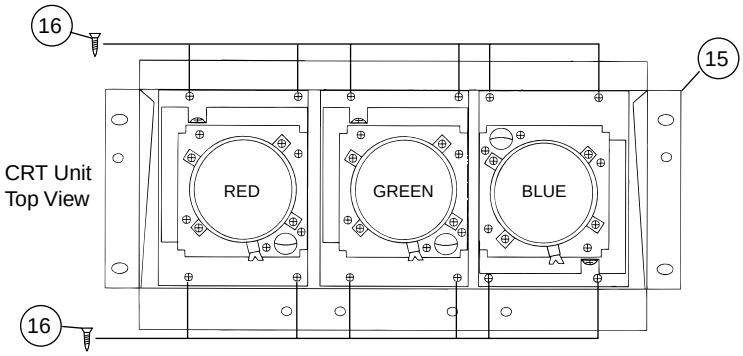
CABINET PARTS LOCATION-1/2



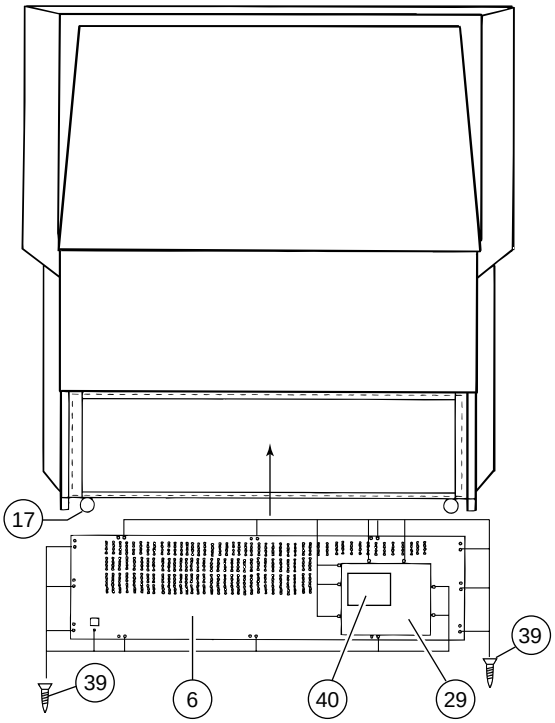
CABINET PARTS LOCATION-2/2

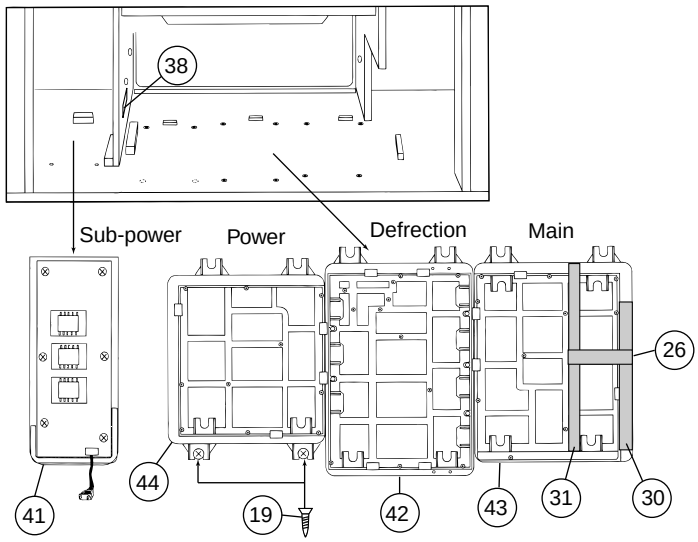






CRT Unit
Top View





Ref. No.	Part No.	★	Description	Code

MISCELLANEOUS PARTS

⚠	QACCD3094CESA	M	AC Cord	AP
	QCNW-0260MEZZ	M	Connecting Cord (N), CRT (R)-HV	AD
	QCNW-0261MEZZ	M	Connecting Cord (NA), CRT (R-G)	AD
	QCNW-0262MEZZ	M	Connecting Cord (NB), CRT (G-B)	AC
	QCNW-0263MEZZ	M	Connecting Cord (CR), CRT (R)-Main	AD
	QCNW-0264MEZZ	M	Connecting Cord (CG), CRT (G)-Main	AD
	QCNW-0265MEZZ	M	Connecting Cord (CB), CRT (B)-Main	AD
	QCNW-0270MEZZ	M	Connecting Cord (OC), Main-Sub Power	AE
	QCNW-0271MEZZ	M	Connecting Cord (EB), power-Sub Power	AE
	QCNW-0272MEZZ	M	Connecting Cord (LB), Power-Main	AE
	QCNW-0273MEZZ	M	Connecting Cord (LC), Power-Main	AF
	QCNW-0274MEZZ	M	Connecting Cord (LD), Power-D/C Amp	AE
	QCNW-0275MEZZ	M	Connecting Cord (LD), Power-HV	AD
	QCNW-0278MEZZ	M	Connecting Cord (DI), HV-D/C Amp	AD
	QCNW-0279MEZZ	M	Connecting Cord (DO), HV-D/C Amp	AF
	QCNW-0280MEZZ	M	Connecting Cord (SO), Power-D/C Amp	AH
	QCNW-0281MEZZ	M	Connecting Cord (RC), Control-Tuner	AN
	QCNW-0282MEZZ	M	Connecting Cord (RA), Control-Main	AH
	QCNW-0283MEZZ	M	Connecting Cord (L1), Tube-CRTx3	AD
	QCNW-0286MEZZ	M	Connecting Cord (L4), HV-CRT (R)	AD
	QCNW-0287MEZZ	M	Connecting Cord (L5), CRT (R-G, G-B)	AD
	QCNW-0289MEZZ	M	Connecting Cord (L7), F Pack-HV	AD
	QCNW-0290MEZZ	M	Connecting Cord (FE), Splitter-HV	AK
	QCNW-0291MEZZ	M	Connecting Cord (HV), Splitter-FBT	AK
	QCNW-0293MEZZ	M	Connecting Cord (DF), F Pack-HV	AF
	QCNW-0294MEZZ	M	Connecting Cord (FR), F Pack-CRT (R)	AF
	QCNW-0295MEZZ	M	Connecting Cord (SR), F Pack-CRT (R)	AE
	QCNW-0296MEZZ	M	Connecting Cord (FG), F Pack-CRT (G)	AF
	QCNW-0297MEZZ	M	Connecting Cord (SG), F Pack-CRT (G)	AE
	QCNW-0298MEZZ	M	Connecting Cord (FB), F Pack-CRT (B)	AF
	QCNW-0299MEZZ	M	Connecting Cord (SU), F Pack-CRT (B)	AE
	QCNW-0303MEZZ	M	Connecting Cord (AG), Power-Tuner	AD
	QCNW-0309MEZZ	M	Connecting Cord (FM), Focus Murata	AF
	QCNW-0310MEZZ	M	Connecting Cord (AL), Anode Murata	AM
	QCNW-0316MEZZ	M	Connecting Cord (LA), Power-Def1	AD
	QCNW-5597CEZZ	J	Connecting Cord (F), Phono (Tuner)	AN

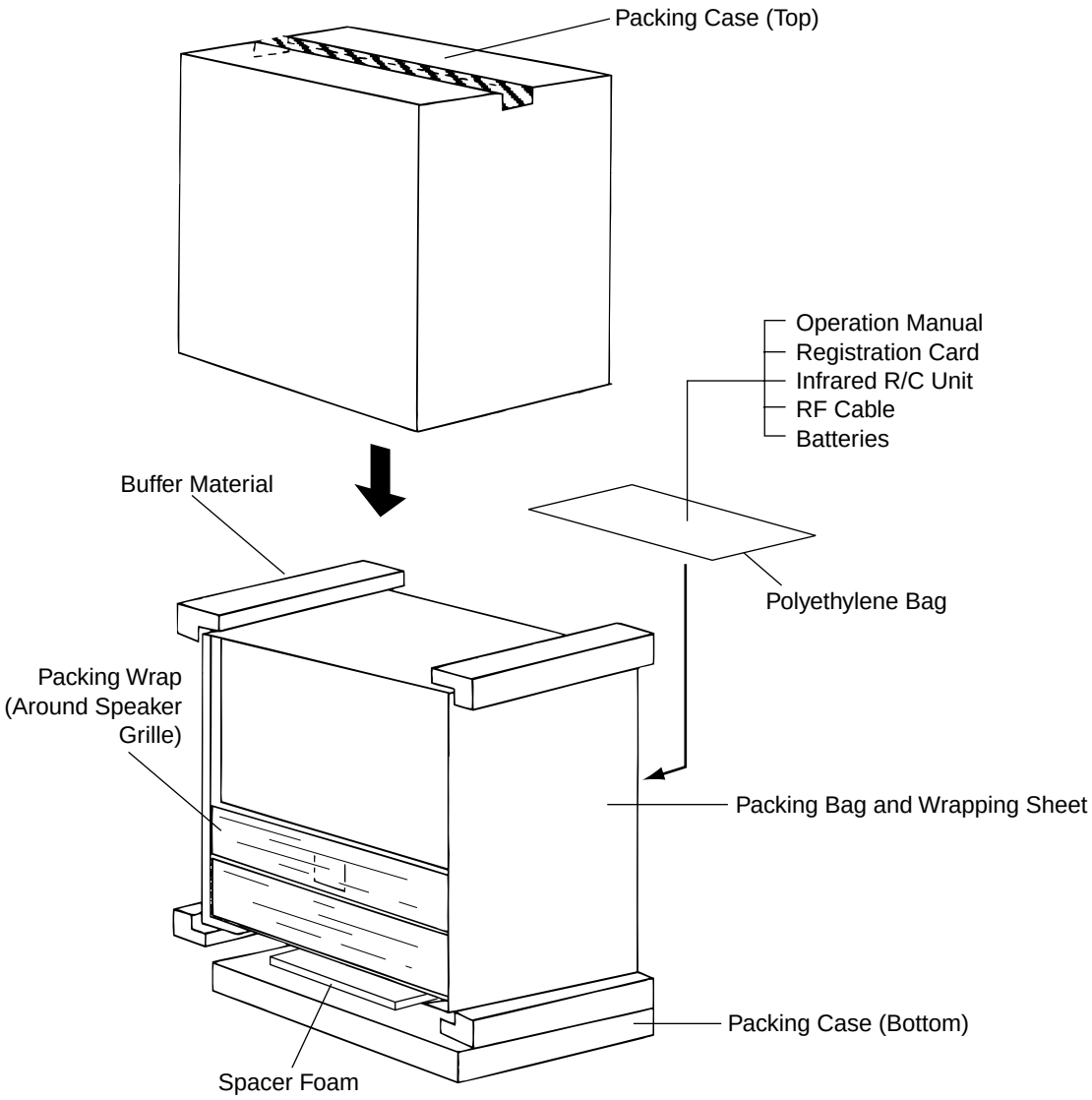
SUPPLIED ACCESORRIES

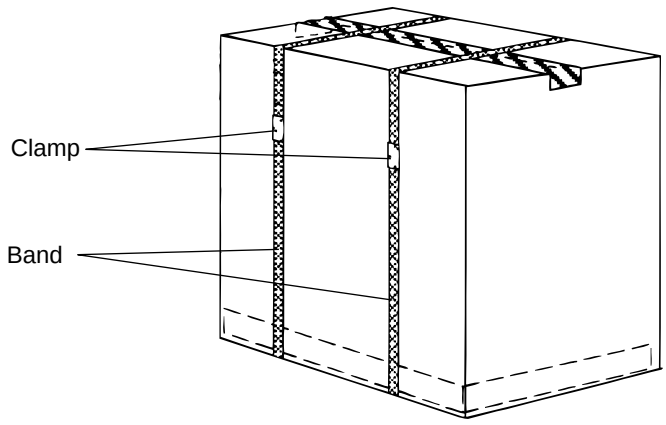
TGAN-1061MEZZ	M	Registration Card	AD
TiNS-7197MEZZ	M	Operation Manual	AK
RRMCG1608CESA	M	Infrared R/C Unit	BQ
QCNW-0089MEZZ	M	RF Cable	AH

PACKING PARTS
(NOT REPLACEMANT ITEM)

SPAKC0680MEZZ	–	Packing Case, Top (61R-WP5H)	—
SPAKC0682MEZZ	–	Packing Case, Top (55R-WP5H)	—
SPAKC0681MEZZ	–	Packing Case, Bottom (61R-WP5H)	—
SPAKC0683MEZZ	–	Packing Case, Bottom (55R-WP5H)	—
SPAKX0184MEZZ	–	Buffer Material (61R-WP5H)	—
SPAKX0185MEZZ	–	Buffer Material (55R-WP5H)	—
SSAKH0121MEZZ	–	Packing Bag	—
SSAKA0004MEZZ	–	Polyethylene Bag	—
SPAKL0011MEZZ	–	Band	—
LANGK0014MEZZ	–	Clamp	—

PACKING OF THE SET





SHARP

COPYRIGHT © 2001 BY SHARP CORPORATION

ALL RIGHTS RESERVED.

No part of this publication may be reproduced,
stored in a retrieval system, or transmitted in
any form or by any means, electronic, mechanical,
photocopying, recording, or otherwise, without
prior written permission of the publisher.

Ⓓ SMCA Ⓟ SMCA TQ1136-S
May. 2001 Printed in Japan
SY. KG

SHARP CORPORATION
AV Systems Group
Quality & Reliability Control Center
Yaita, Tochigi 329-2193, Japan